



ProNovia SAP PLM Client

User Manual

Imprint

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Table of Content

1	Introduction	5
1.1	Other documents	5
1.2	Prerequisites	5
1.3	Abbreviations	5
1.4	Symbols in this document	6
2	ProNovia SAP PLM Client	7
2.1	User Interface	7
2.1.1	User Interface Definitions	9
2.1.2	Objects of the User Interface	10
2.1.3	Object Tab	10
2.1.4	User Data/User Section	11
2.2	Widgets	12
3	Operations / Functions	13
3.1	Object Selection / Object Function	13
3.2	Object Independent Functions	13
3.2.1	Personal Settings	15
3.2.2	Layout Manager	19
3.2.3	Management of Tree Display Layouts	20
3.2.4	Validity without ProcessManager	21
3.2.5	Validity with ProcessManager	23
3.2.6	Structure On/Off	24
3.2.7	Save	24
3.2.8	Exit PLM Client	24
3.2.9	Find/Find Next	25
3.2.10	Refresh Data	26
3.2.11	Add Objects to Favorites	26
3.2.12	Load Objects from Favorites	26
3.2.13	Remove Objects from Favorites	27

3.2.14	Delete All Favorites.....	27
3.2.15	Previous Object.....	27
3.2.16	Copy	27
3.2.17	Text Maintenance.....	28
3.2.18	General Widget Functions.....	28
3.3	Selection List.....	30
3.3.1	Function of Selection List.....	30
3.3.2	Language of the Description.....	33
3.3.3	Create Selection via File.....	33
3.3.4	Adding Objects.....	34
3.4	Structure/Usage	39
4	Objects.....	40
4.1	Object "Material".....	40
4.2	Object "Document".....	43
4.3	Object "Functional Location".....	45
4.4	Object "Equipment"	46
4.5	Objects "Project System".....	47
4.6	Object "Change Master"	48
4.7	Object "Routing"	50
4.8	Object "Work Center"	52
4.9	Object "System".....	54

1 Introduction

This manual describes the following topics:

- Operation of ProNovia SAP PLM Client
- ProNovia SAP PLM Client user interface and displayed information

This manual describes the PLC with definitions and functions of customizing templates included in the delivery.

Behaviour as well as appearance are strongly dependent on the definition of available objects, data and functions of PLC. All information displayed in this manual must therefore be regarded generally, and may be defined differently. Please regard your valid definitions in your company for PLC as well as additional documentation (Customizing Manual and Integration & Enhancement).

1.1 Other documents

All relevant and available documents are found in the ProNovia Support Center: <http://support.pronovia.ch>.

1.2 Prerequisites

Prerequisites for using ProNovia products:

- The ProNovia products to be used must be installed and setup correctly on the relevant systems.
- The ProNovia products must be properly integrated, activated and configured. Details see ProNovia Basic Library Integration and Enhancement Manual.
- To use the ProNovia products, valid licenses for each product must be loaded on each system. Details see ProNovia Basic Library Integration and Enhancement Manual.
- The necessary permissions for the display and maintenance of SAP objects must be present.

1.3 Abbreviations

Some abbreviations used in the ProNovia documents:

Abbreviation	Stands for
ADM	ProNovia SAP PLM Administrator
C5C	ProNovia SAP PLM CATIA-V5-Conversion (CENIT)
CHD	ProNovia SAP DMS ChangeDoc
DMC	ProNovia SAP DocumentManagementClient
ESB	ProNovia SAP EasyBrowse
GCP	ProNovia SAP ProcessManager Generic CAD Plugin
MMS	ProNovia SAP PLM MaterialMasterSupport
MSC	ProNovia SAP PLM StructureControl
MSO	ProNovia SAP DMS MSOfficeIntegration
OBJ	ProNovia Object Services
OLM	ProNovia SAP PLM ObjectLifecycleManager
PBL	ProNovia SAP PLM PRM DynamicBaseline
PCF	ProNovia SAP Client Framework

PCM	ProNovia SAP PLM ChangeManager
PLC	ProNovia SAP PLM Client
PRM	ProNovia SAP PLM ProcessManager
PRL	ProNovia SAP PLM ProcessManager LogisticExtension
PBL	ProNovia SAP PLM PRM DynamicBaseline
SDF	ProNovia SAP DMS FrameWork
UGC	ProNovia SAP PLM UG-Conversion (Marenco)
UTI	ProNovia Basic Library

More terms are described in the ProNovia SAP PLM Glossar.

1.4 Symbols in this document

In this document following symbols may be used:

	Important or critical hint, to pay special attention to.
	Additional information.
	BusinessAddIns (BAdi) are available. They are described in the corresponding installation and enhancement manual.
	Function protected by SAP authorization.

2 ProNovia SAP PLM Client

Start of the application

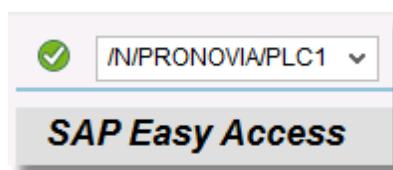
ProNovia SAP PLM Client is started by default with one of SAP PLM transactions /PRONOVIAPLC1 to /PRONOVIAPLCn. These transactions are assigned to the relevant user interface definitions. Eventually transactions related to the former product name /PRONOVIAPLG1 through /PRONOVIAPLGn are still used in your company.

	The delivery status (usage of the customizing template) defines the following transactions:
ⓘ	/PRONOVIAPLC1 ProNovia SAP PLM Client
ⓘ	/PRONOVIAPLC2 ProNovia SAP PLM Client incl. PLM Administrator

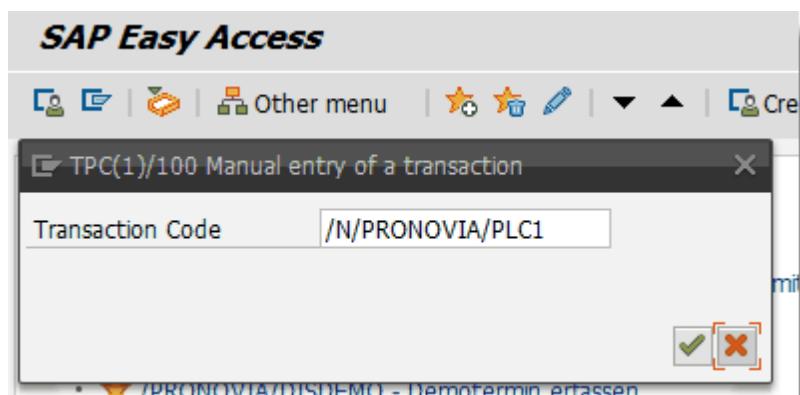
ⓘ	Please note the transactions of the ProNovia SAP PLM Client valid for your enterprise. Optionally, transaction codes from the customer's name space can also be in use.
----------	---

Please note that the entry of transaction codes from reserved name spaces in the SAP command field must always begin with prefix /N, whereas the entry into the SAP Easy Access menu is required without this prefix.

Entry into the SAP command field:

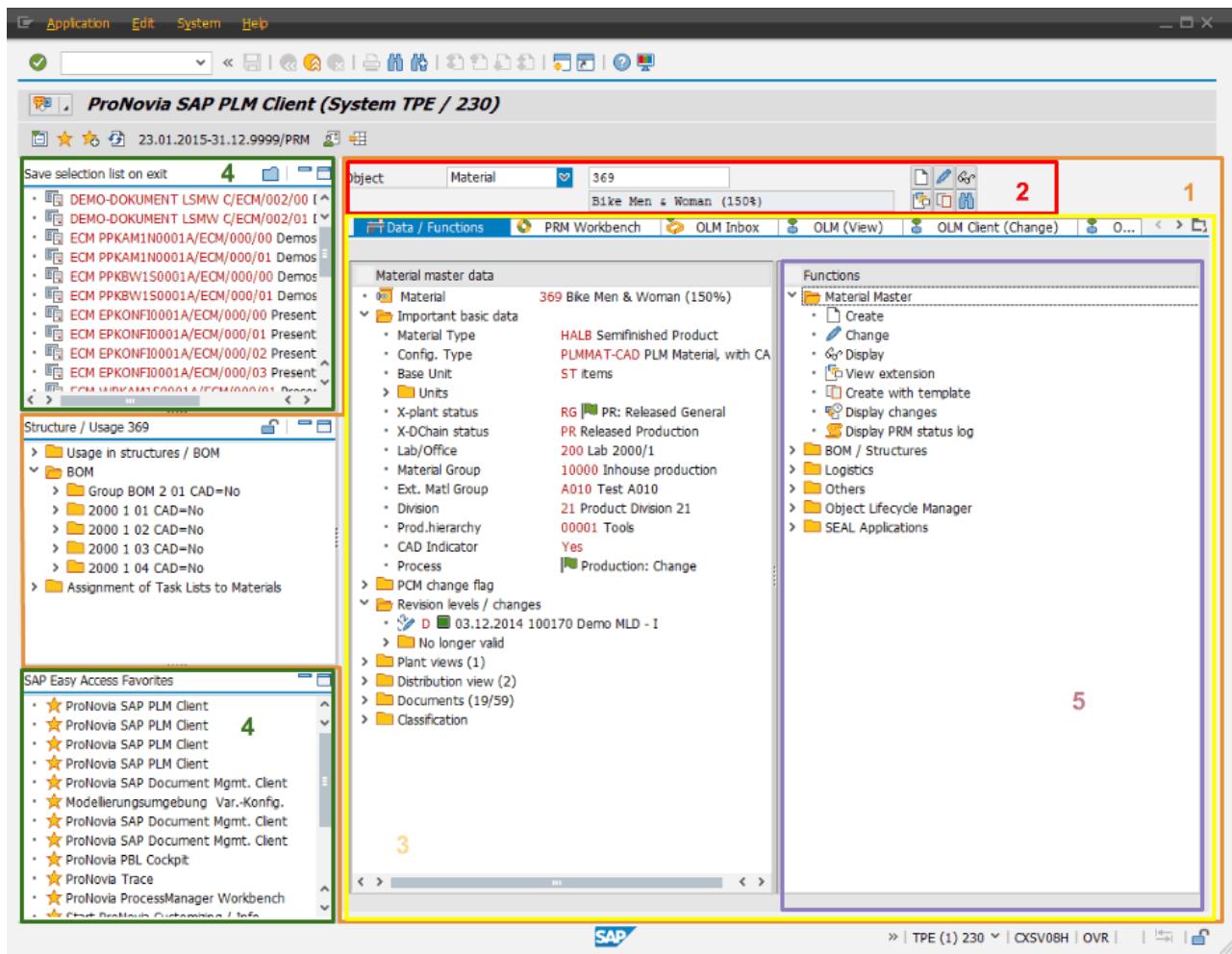


Entry into the SAP Easy Access menu:



2.1 User Interface

On its user interface, ProNovia SAP PLM Client provides different screen sections where object types, objects and functions can be selected and data will be displayed. Below an overview of these screen sections and the explanation of the terms used in the following chapters.



1 User interface definition

Defines the objects and their functions, which are available in this definition. One or several definitions are assigned to a transaction.

2 Objects of the user interface

A definition consists of objects for which data can be displayed and functions which can be performed. Furthermore an object can display structures and usages in a separate section.

3 Object Tab

For every object, one or several tabs can be defined. In these, data is displayed or functions are provided. Also tabs which directly perform an ABAP report or a transaction can be defined.

4 User data / user sections

These sections are always provided and their content is determined by the user:

Selection:

Arbitrary collection of objects which can be assembled by drag & drop, search operations, etc.. These objects can then be redisplayed by selecting. A selection can be saved, reloading is also possible by other users.

	<p>SAP Easy Access favorites:</p> <p>If activated, the functions from the SAP Easy Access Favorites are provided here.</p> <p>Favorites:</p> <p>Every displayed object can be listed in the favorites list by clicking on icon , and can be displayed again by selection from the list.</p>
5	<p>Function definitions</p> <p>Functions are defined and displayed over function definitions. These function definitions are then assigned to the relevant tabs.</p>

2.1.1 User Interface Definitions

A Definition defines the available objects and the functions provided for the objects. One or several definitions are assigned to one transaction.

Selection of User Interface Definition

In the ProNovia customizing template, two user interface definitions are available bound to the following SAP transactions.

<i>User interface definition</i>	<i>Meaning</i>	<i>SAP transactions</i>
Standard PLC template (delivery)	Standard ProNovia SAP PLM Client: Definitions for objects material, document, change master, functional location, equipment and objects of the project system.	/PRONOVA/PLC1 /PRONOVA/PLC2 (old /PRONOVA/PLG1 and /PRONOVA/PLG2)
ProNovia SAP PLM Administrator	Definitions of the ProNovia SAP PLM Administrator functions.	/PRONOVA/PLC2 (old /PRONOVA/PLG2)

Eventually also other user interface definitions respectively SAP transactions are available in your enterprise, e.g.:

- Engineering definitions for objects and functions regarding engineering
- AVOR definitions for objects and functions regarding section work preparation

The function definitions of the user interface definition „ProNovia SAP PLM Administrator“ corresponds to the functions of the product ProNovia SAP PLM Administrator. For the usage of these functionalities the product must be installed accordingly and must be licensed.

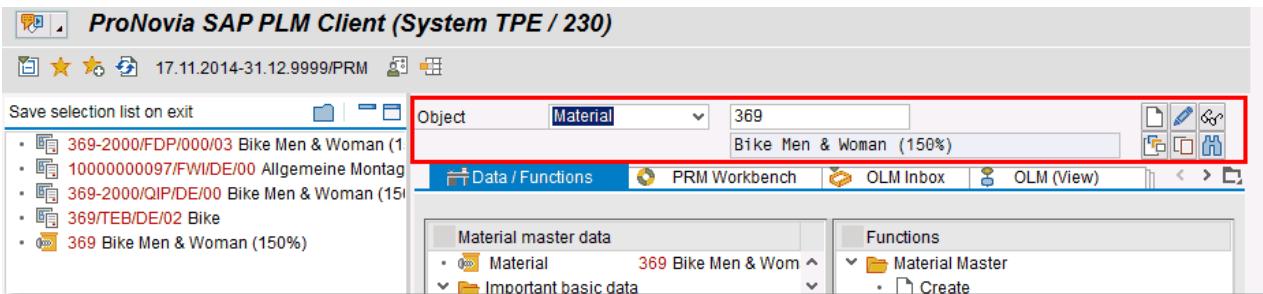
ProNovia SAP PLM administrator allows the manipulation of specific data of SAP PLM objects.

If several user interface definitions are assigned to a transaction (such as /PRONOVA/PLC2), then the requested user interface can be selected with the function „change of definition“ .



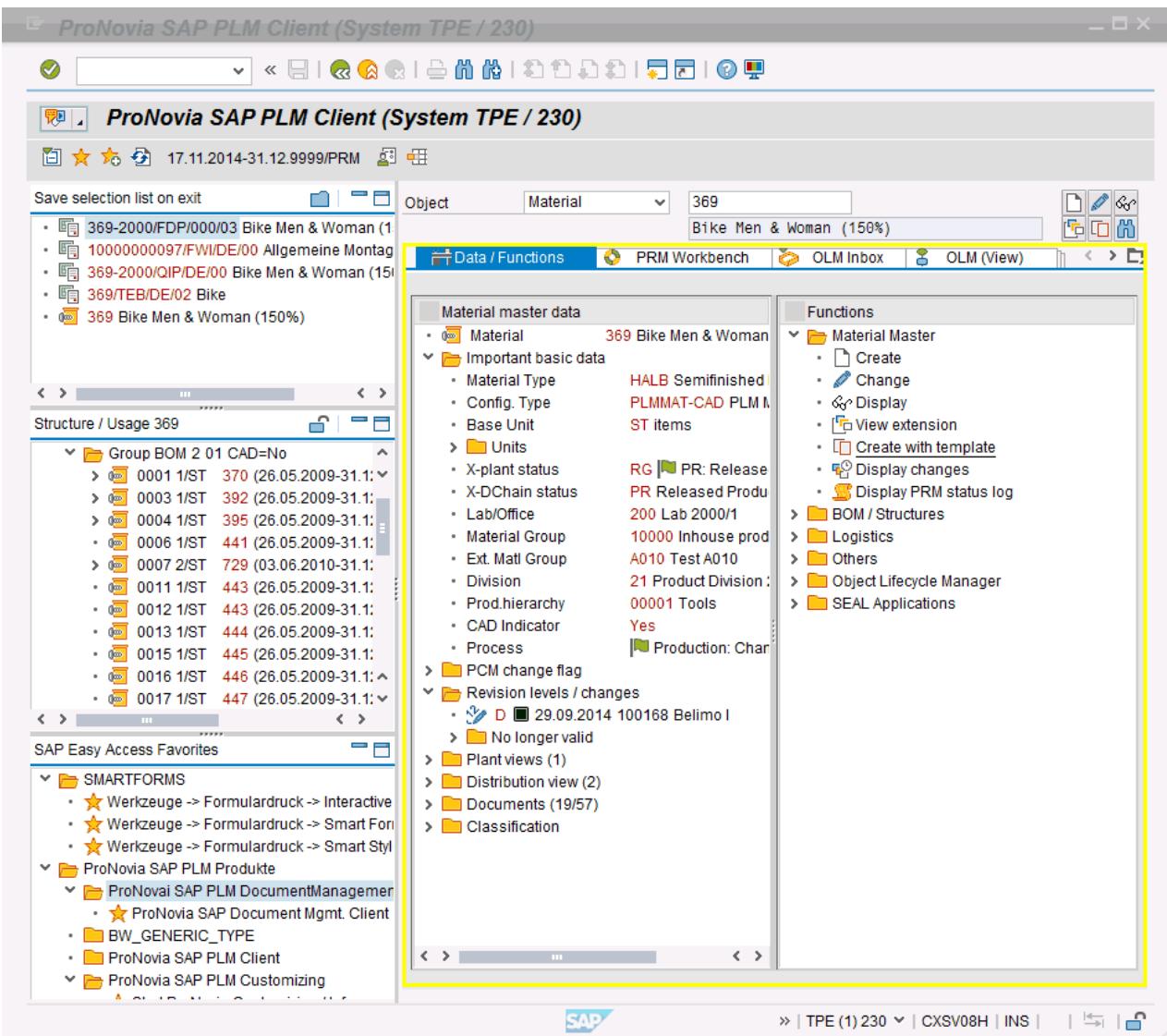
2.1.2 Objects of the User Interface

A definition consists of objects for which data can be displayed and functions can be performed. Furthermore, an object can display structures and usages in a separate section; see [Structure/Usage](#)³⁹. Information on the objects supported in the scope of delivery can be found in chapter [Objects](#)⁴⁰.



2.1.3 Object Tab

For each object, one or several tabs can be defined, in which data is displayed or functions are provided. Tabs which directly perform an ABAP report or a transaction can also be defined.



2.1.4 User Data/User Section

These sections are always provided (sometimes only if activated), and their content is determined by the user:

Selection list (1)

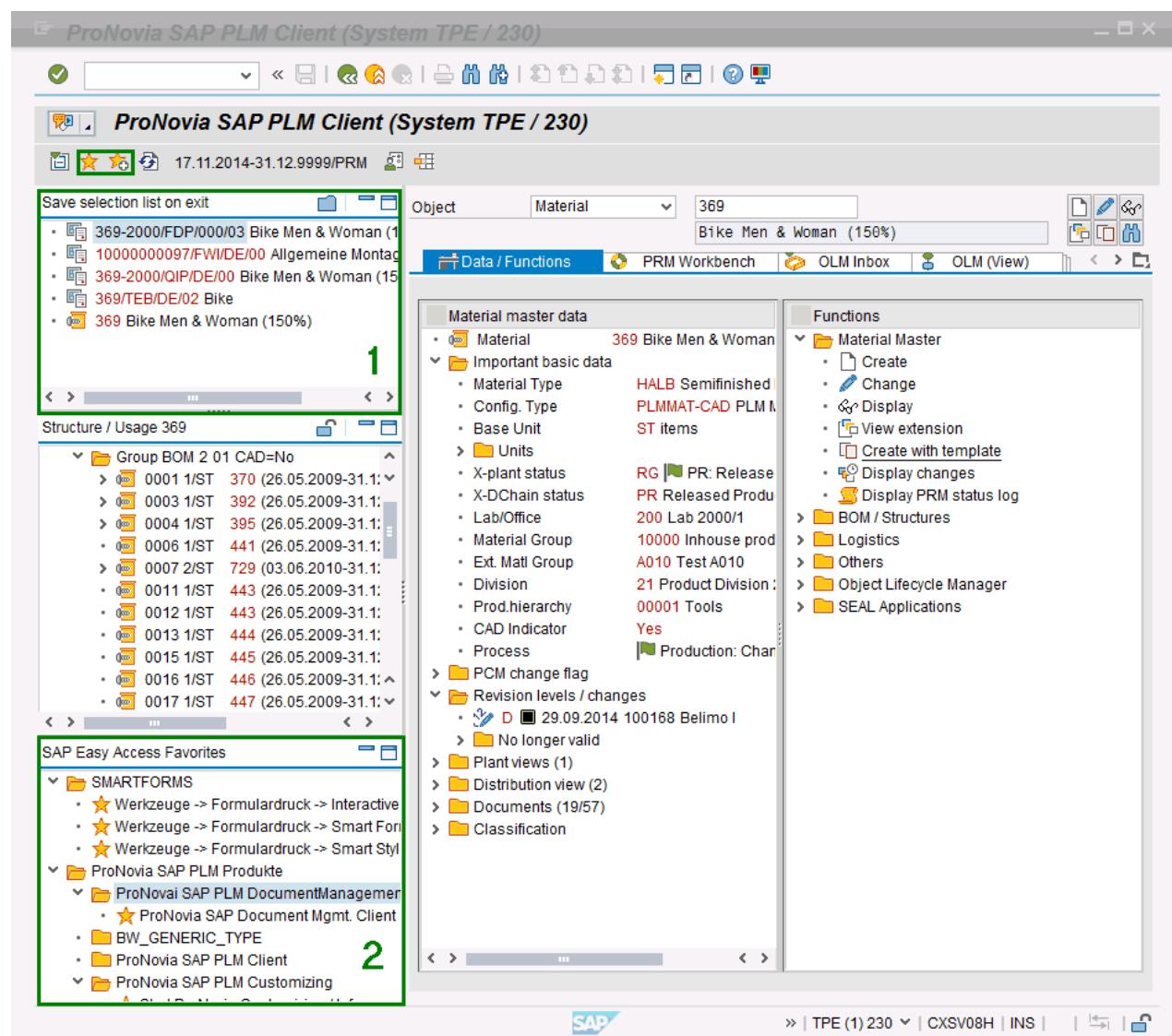
Arbitrary collection of objects which can be assembled by drag & drop, search operations, etc.. Objects from the list can be redisplayed by selecting them from the list. A selection can be saved, and can be reloaded, also by other users. Details see [Selection List](#)^[30].

SAP Easy Access favorites (2)

If activated, functions from the personal SAP Easy Access Favorites are provided here. See also chapter [Object Independent Functions](#)^[13].

Favorites (3)

Every object displayed can be listed in the favorites list by clicking the  icon and can be displayed again with direct selection from the list. See also [Objects to Favorites](#)^[26].



2.2 Widgets

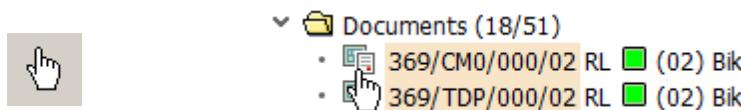
The left section of the ProNovia SAP PLM Client is reserved to implement socalled “widgets”. Widgets are flexible, task oriented, reusable display sections with object specific and context sensitive functionalities. E.g. the application ProNovia DocumentManagementClient is completely implemented with widgets.

A widget:

- provides information
- provide content functions
- can interact with other widgets (within the same ProNovia product)
- can be displayed individually and user specific (maximize, minimize, restore, close, lock, etc.)

3 Operations / Functions

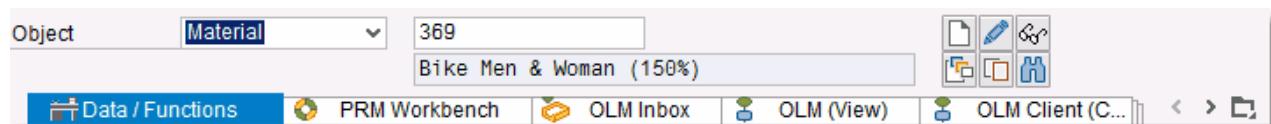
- If a ProNovia SAP PLM Client object refers to another supported SAP object you can jump directly to the object display with a double-click on the relevant field or single-click on the icon.



- With function „last object“ ( / F3) you can return to the object displayed before (multiple times possible).
- Nodes can be displayed compressed  or expanded  using the mouse button.
- Originals of documents can be displayed directly over the icon  „original“.
- PLC supports „drag & drop“. Details see [Adding Objects](#) ³⁴.
- The object key of the displayed object is transferred to PLC functions and SAP transactions executed through the SAP Easy Access widget directly.
- After performing an external function or transaction, the control goes back to PLC,
- If a new object (material, document, etc.) is created this will directly be shown in PLC, except the update process needs to much time.
- Within a function definition, functions will only be available, if the user has adequate authorization.

3.1 Object Selection / Object Function

Objects in the ProNovia SAP PLM Client can be selected directly in the section „Object“, by selecting the relevant object type and the entry of the object key. The regular SAP search help functions are available. Also see [Adding Objects](#) ³⁴.



In the object selection several general functions – depending on the object – are available, e.g.:

- Create 
- Change 
- Display 
- Search 

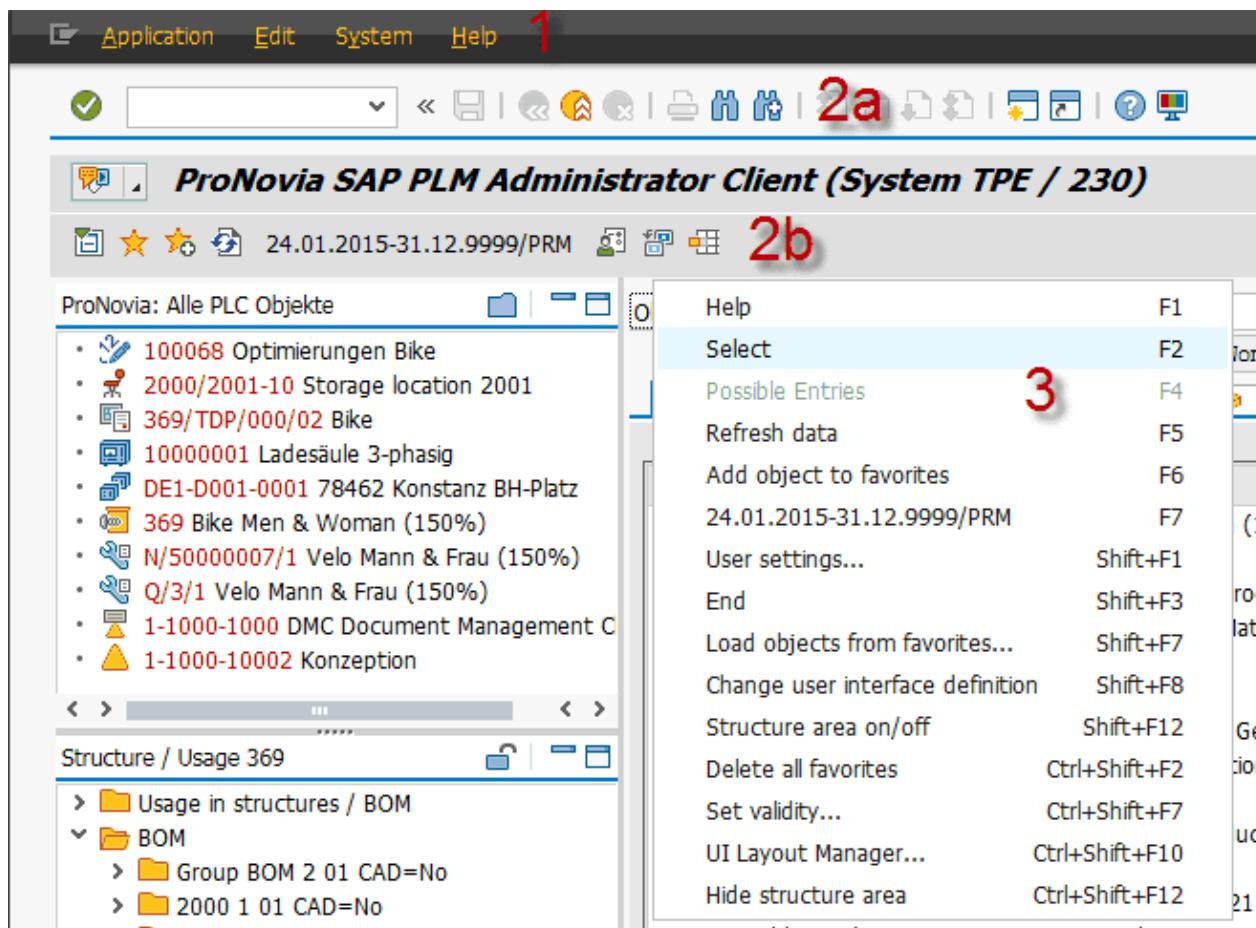
(List is not complete)

3.2 Object Independent Functions

The basic functions of the ProNovia SAP PLM Client can be activated in different ways:

- Function call from the menu (1)

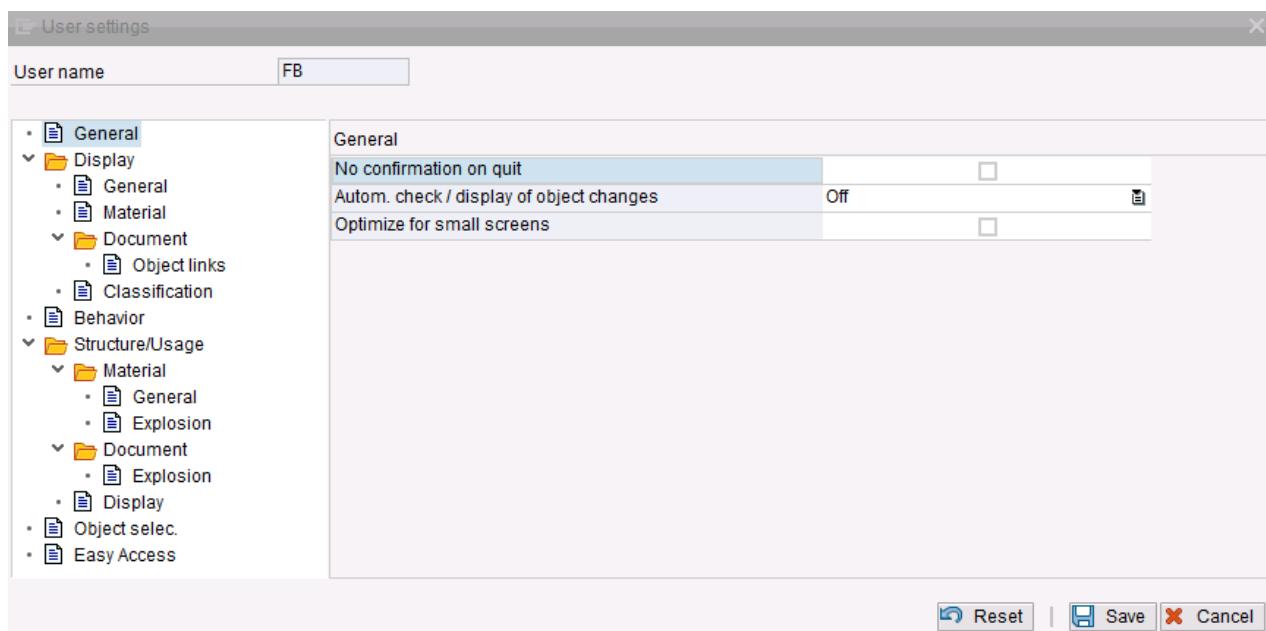
- Function call with Push buttons (2a and 2b)
- Function call from the SAP standard context menu (right mouse button, 3). Functions available are depending on the area / object the context menu is executed.



3.2.1 Personal Settings

Personal settings will influence the behavior and the display.

Settings are listed on the left side hierarchically. Which setting can be changed depends on the current application. Only relevant settings for this product will be listed. Only these settings will be listed.



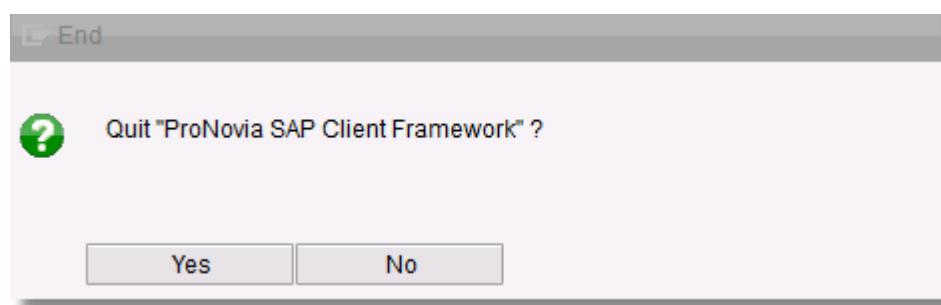
Settings are saved for user and client.

To change personal settings, select icon or menu Application → Personal Settings.

3.2.1.1 General

No confirmation on quit

If activated, no confirmation prompt will be necessary when exiting the program.



Automatic display refresh

If activated, the display will be refreshed automatically and periodically. Changes by other users will become visible.

	Automatic refreshing will shortly freeze the SAP GUI, which may also have an influence on other open SAP GUI or external open windows.
--	--

Options for small displays (screens)

If activated, the application tries to optimize the display for smaller screens by hiding/showing the sections on the left side, depending on the selected tab.

3.2.1.2 Display

General

Formatting Key Fields

Different format options are available for key fields.

Hide Empty Fields

If active, empty fields will be hidden

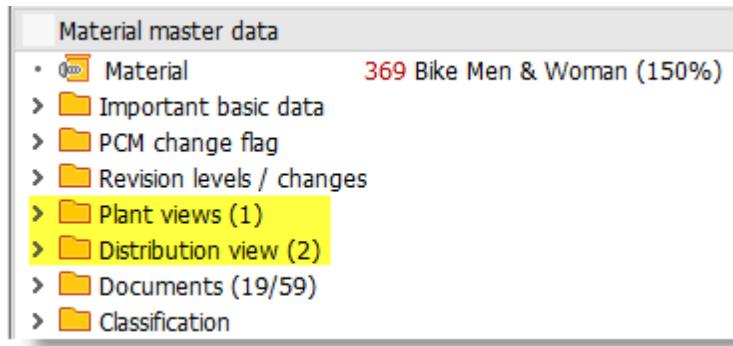
Start Document Key with Number

If activated the document keys will be processed, starting with the document key. Else acc. document type, document number, part document, document version.

Material

Show number of plant views / sales views

If activated, also the total number will be indicated, when plant and distribution views are shown.



Document / Object links

Display of Document Version

Defines which document version of the linked document shall be displayed:

Show only highest version

Only highest version of document info record will be displayed.

Show all versions

All linked document versions shall be displayed.

Highest version in validity range

Display of highest version in current defined validity range, which is the highest released one. The overall highest version will also be listed, however in brackets. If no released version can be found in this validity

range, the highest version otherwise will be listed. In order to indicate whether this version is released or not, a status icon is displayed, too.

Show Number of Linked Documents

If activated, the number of linked objects will be listed.

- ▼  Objektverknüpfungen (2)
- ▼  Dokumentinfosatz (1)
 -  10000000238/CP0/000/01 AV  Velo Mann & Frau (150%)
- ▼  Materialstamm (1)
 -  369 RG Velo Mann & Frau (150%)

Show Object Status of Linked Objects

If activated, for some linked objects also the object status will be displayed.

Classification

Class Display

Selection for display in expanded or compressed version for default class as well as for all classes.

Show Non-Valuated Characteristics

If activated, also characteristics without valuation will be displayed.

Display Characteristic Value

Defines whether characteristic values will be displayed in external format or internal, technical format.

3.2.1.3 Behaviour

Deactivate Single Click (Improved D'n'D Handling)

If activated, all single click actions will be deactivated. In order to execute certain actions, a double click is required.

This setting optimizes the drag & drop handling, because no actions can be triggered accidentally, when handling an object with drag & drop.

3.2.1.4 Structure / Usage

Material

Explosion Sub-Structure with Position Validity

By default the following BOM levels will be exploded with the current validity settings.

If this option is activated the lower-level assemblies will be exploded with the validity of the current BOM position.

□ BOM call with change number

Relevant for function "Create BOM", "Change BOM" or "Display BOM" for object material as well as for object document.

The function can be activated via context menu in section "structure / usage" or via relevant function in widget "SAP functions".

If this option is activated, the valid change number (if existing) will be handed over to the BOM maintenance. The following rules are applied:

If this option is activated, then the change number valid at the time (if available) is transferred to the BOM maintenance. Thereby, the following rules are applied:

- Always the change number according the document info record will be used:

- For a BOM creation, the valid change number is always proposed.

For display or change:

- If the BOM requires no history, i.e. it was never before edited with a change number, then no change number will be proposed.
- If the BOM has not been edited with the valid change number, then
 - no change number is proposed for the display,
 - the valid change number is suggested on a change a change it becomes the valid change number.
- If the BOM has been edited with the valid change number, then it is verified if other changes have been made on the same day or later with other numbers. If so, the change number can be selected. If not, the valid change number is proposed.

The change number is always transferred as a proposal, and can be changed or deleted in the according start dialogue of the maintenance transaction.

□ Automatic BOM explosion

If activated, the BOM will be exploded automatically (no user interaction required).

□ Automatic Usage Explosion

If activated, any usages will be automatically exploded.

□ BOM Us

Controls which usage shall be exploded automatically in case of an automatic explosion.

□ Plant

Controls, which plants shall be exploded automatically in case of an automatic explosion.

Document**□ Automatic BOM Explosion**

If activated, the BOM will be exploded automatically (no user interaction required).

Automatic Usage Explosion

If activated, any usages will be automatically exploded.

Display

View ...

For the display of BOM and usages, different fields can be hidden or displayed.

3.2.1.5 Others

Object Selection

Save selection when ending automatically

If activated the current object selection will be automatically saved when the application is ended.

Sort "selection" automatically

If activated the object selection will be sorted automatically when new objects have been added (by object key and/or object key, description etc.). However the sorting can be always be changed directly in the object selection.

Easy Access

Show Technical Name

If activated, the technical names (transactions) will be displayed with all SAP Easy Access favorites.

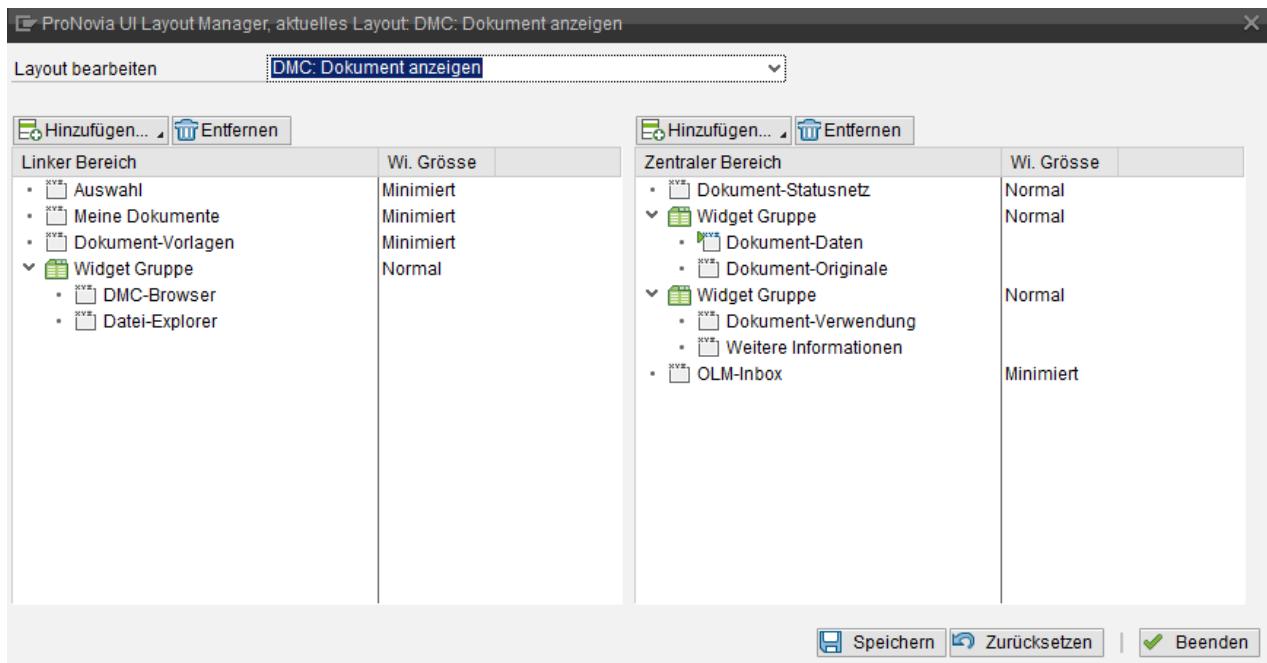
3.2.2 Layout Manager

All layouts can be configured customer specifically in the layout manager. Widgets can be added or removed, orders and display states can be changed, widgets can be grouped to tabs.

The layout manager is started with icon  or menu *Application* → *Layout Manager*.

In the central customizing, the general ProNovia SAP PLM Client layout is configured. These settings define the content of the left and right (middle) section, visibility and order can be set user specifically.

Use specific settings can always be reset to default settings.



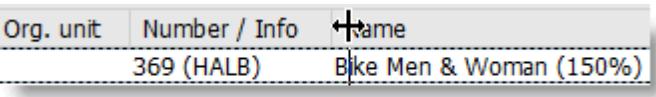
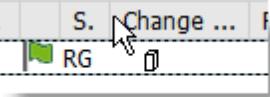
The drag & drop functionality can only be used moving widgets. Push buttons are provided to add or remove widgets.

Push Button	Description
Add...	Add new widget or widget group. All widgets available will be listed in a selection menu.
Remove	Removes the selected widget or widget group.
Reset	Resets all settings as defined in the customizing. i When changes are made in the central customizing, the combination user and standard settings may result in an incorrect display. In this case, the layout must be reset with this function.
Save	Saves changes to current layout.
Exit	Ends layout manager.

3.2.3 Management of Tree Display Layouts

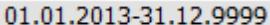
For widgets which are displaying the data in a tree layout with columns, different personal layouts can be managed. Column titles are used for all actions.

Function	Description
Change layout	
Change column width	The column width left from the separator can be changed when clicking on the separator and moving it.

Function	Description
	
Change column position	The position of the column can be change when clicking on the column title and moving it to another position. 
Context menu functions	
Save layout...	The current layout settings for this widget will be saved. The layout name can be freely chosen. A layout with the same name will be overwritten.
Load layout...	A saved layout can be selected and the settings will be used.
Set standard layout...	Allows selecting a standard layout which will be loaded for this widget when starting the user interface.
Delete layout...	Allows deleting layouts. The layout to be deleted can be selected in a dialog.

3.2.4 Validity without ProcessManager

Menu entry PLM Client → set validity...

Push button 

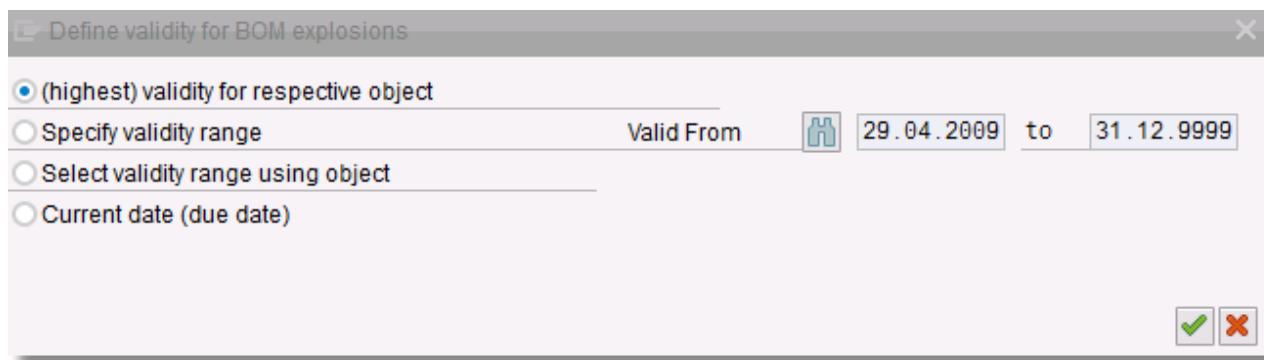
Context menu function Set validity...

The explosion resp. representation of a structure (e.g. material BOM, document BOM, functional location BOM etc.) is always in relation to a validity range.

The following representations / views in the ProNovia SAP PLM Client are concerned:

- ProNovia SAP PLM ProcessManager workbench
- ProNovia SAP PLM ProcessManager navigator
- Data in the section structure/usages

With this function the validity range can be defined. The following options are available:



A validity range is saved in the user data of the ProNovia SAP PLM Client, and is readjusted automatically with the next start.

(Highest) validity according object

For the relevant object the actual validity is determined. If several validities are possible (e.g. for several material revisions), then the maximum validity is determined. For objects which do not have a validity the range current date until 31.12.9999 is used. A change of the object also determines the validity again.

Specify validity range

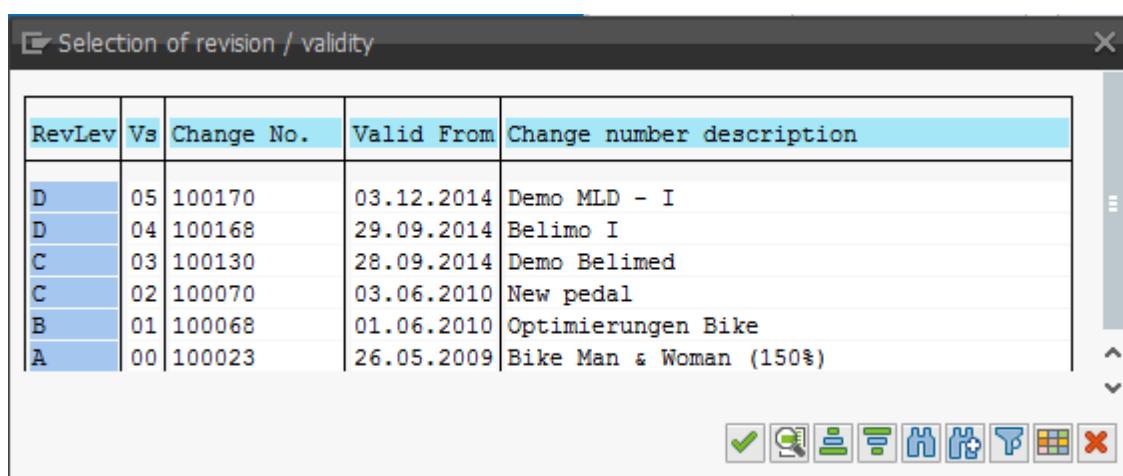
The validity range can be set, and the structures and usages are determined by this date range.

When the validity is set with this option, it remains active until a reset. A change of the object does not influence the selected validity.

Select validity range using object

This option is only active when a material or a document object is displayed.

After selection of this option and confirmation of the dialog selection/ validity for structure explosion, all revisions / versions of the current object are displayed for selection in a popup:



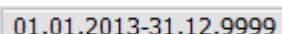
The validity range used afterwards is verified according to the revision / version: Valid from according to the display, valid until = next higher revision / version minus one day. If the current highest revision / version is selected, then valid until will be set on 31.12.9999.

In the example above, by selecting the second line, is would be 29.09.2014 - 2.12.2014.

If the validity is set with this option, then it will remain active until a reset. A change of the object does not influence the selected validity.

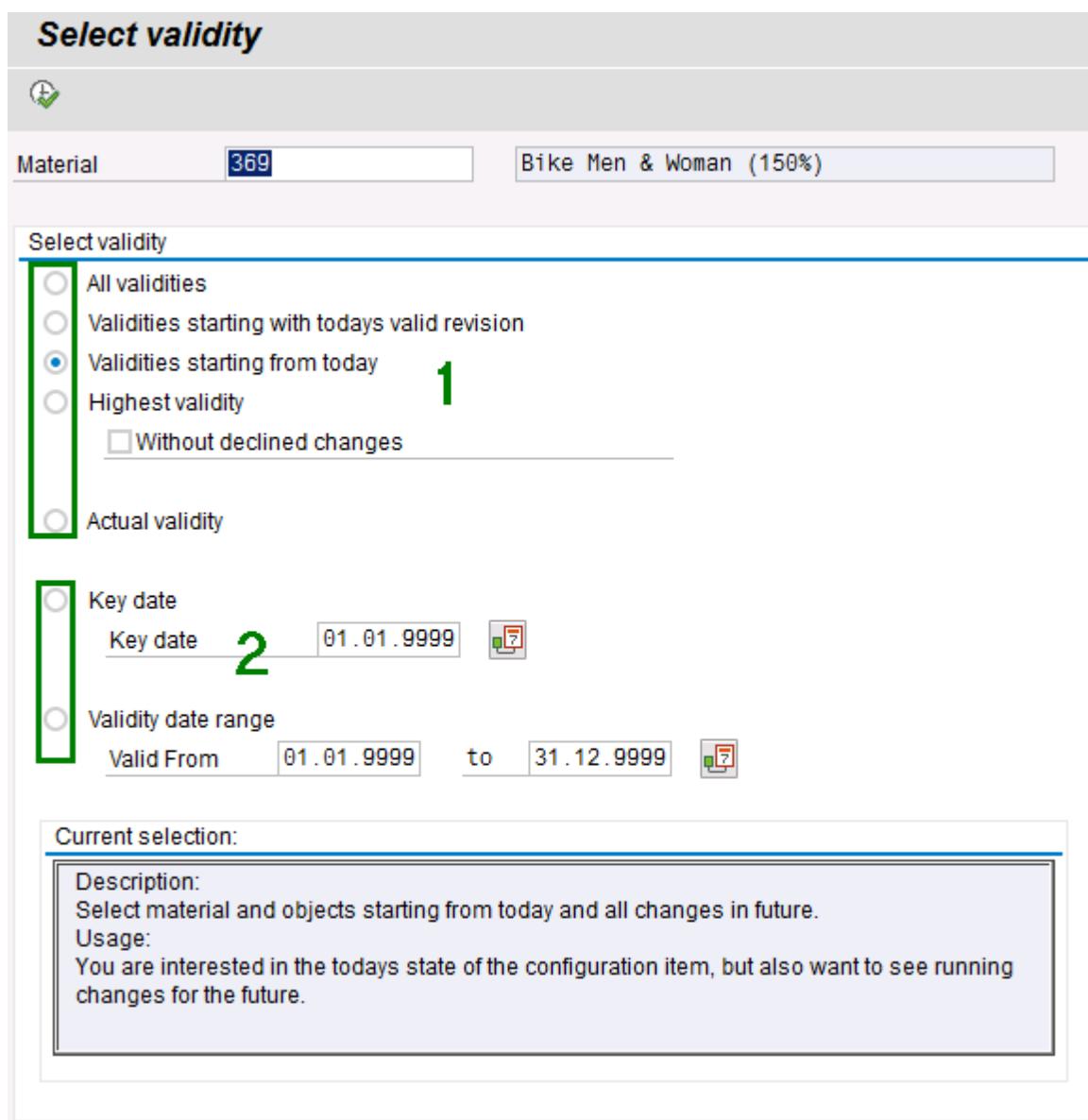
3.2.5 Validity with ProcessManager

Menu entry PLM Client → set validity...

Push button 

Context menu function

If ProNovia SAP PLM ProcessManager is used and the validity selection is started on a material object, the control will be transferred to the ProNovia SAP PLM ProcessManager which allows a more detailed selection:



After the selection from this dialogue, the following options are used on the other objects:

- Options of the group 1 ➔ (Max.) validity of the actual object
- Options of the group 2 ➔ determined resp. recorded validity

If the selection of the validity range is active via ProNovia SAP PLM ProcessManager active, it will be displayed in a Push button for the validity:

01.01.9999-31.12.9999/PRM

Current Date / Due Date

The validity range is set to current date, e.g. "valid from" equals "valid to" (cutoff date).

3.2.6 Structure On/Off

Menu entry Application → structure on/off

Push button  (on) or  (off)

Context menu function Structure on/off

With this function the entire left section (selection list / structures & usages / SAP Easy Access Favorites) can be shown resp. hidden. Hiding this section may become necessary on workstations with small screens.

Please also note the settings „Options for small screens“ as described in [Personal Settings](#) ¹⁵.

3.2.7 Save

Menu entry PLM Client → save

Push button 

Context menu function Save

Will be displayed and activated dynamically by an object-/tab integration. Data of the relevant program will be saved.

An example is the integration of the ProNovia SAP PLM Object Lifecycle Manager which activates the function Save in the change mode.

3.2.8 Exit PLM Client

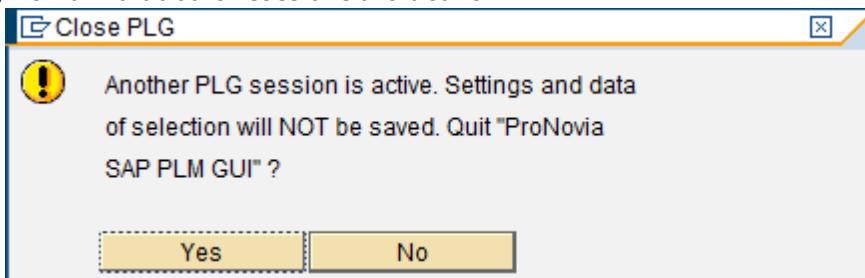
Menu entry Application → exit

Push button 

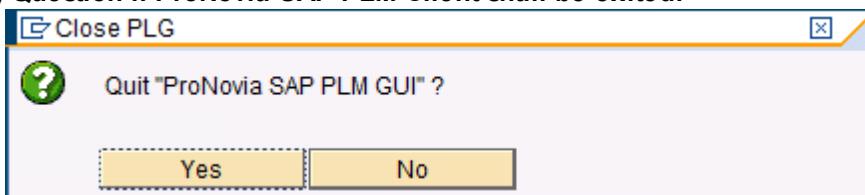
Context menu function Exit

With this function the ProNovia SAP PLM Client is exited. Depending on how ProNovia SAP PLM Client is called, the settings and the number of open ProNovia SAP PLM Client sessions, different dialogs and actions are processed.

(1) Remark that other sessions are active:



(2) Question if ProNovia SAP PLM Client shall be exited:



(3) Leave ProNovia SAP PLM Client without dialog and without to save any data.

(4) Leave ProNovia SAP PLM Client without dialog and with saving data.

The following matrix shows how ProNovia SAP PLM Client processes the Exit function:

	<i>End confirmation active</i>	<i>End confirmation inactive</i>
Session control active, another ProNovia SAP PLM Client session is running.	(1)	(3)
Session control active, the last open ProNovia SAP PLM Client is closed.	(2)	(4)
Session control inactive.	(1)	(4)

Remarks:

- The numbers in brackets are referring to the list above.
- End confirmation is always active if ProNovia SAP PLM Client is called using a transaction code, or if a calling program sets this attribute and the user has not activated option "no confirmation prompt" under Personal Settings ¹⁵.
- The session control is enabled or disabled within the ProNovia SAP PLM Client system settings.
- If the session ends with saving the data, various settings are saved (always) and if enabled the object selection will be saved (see Personal Settings ¹⁵).

3.2.9 Find/Find Next

Menu entry Find

Find next

Push button  

Context menu function

-

Allows searching a term within the standard ProNovia SAP PLM Client tree views. This is for example the Selection, the Data and the Function section, or the Structures section. The search term must be entered in a dialog window.

Hints:

- The search is processed in the current activated section (section with focus). If the current type of section is not supported, a corresponding message is shown.
- Only the data already read into memory is searched. To speed up the initial display of data, some data is only read when a corresponding node is opened, else the data is not available for the search function.
- This function works only on ProNovia SAP PLM Client tree views. Data from other applications (in own tabs) are not supported. As an example, the PRM Workbench is not supported.
- If a search term is found, the corresponding line is made visible and the position within the line will be marked.
- The function "Find next" searches the last entered search term. The search starts at the line, following the one where the search string was found before. If a search term is not found again, a message will be displayed and the last position will still be marked.

3.2.10 Refresh Data

Menu entry Edit → refresh data

Push button 

Context menu function Refresh data

The objects displayed in the ProNovia SAP PLM Client are read in again. This can, for example, be necessary when the validity range or object data in other programs have been changed.

Attention: "Frozen" widgets will not be refreshed, see also [Structure/Usage](#)^[39].

3.2.11 Add Objects to Favorites

Menu entry Edit → object for favorites

Push button 

Context menu function Object for favorites

The object currently selected in the ProNovia SAP PLM Client is added to the personal favorites list. The favorites list also remains when ProNovia SAP PLM Client has been restarted.

By selecting an object from the favorites list, it will be displayed again.

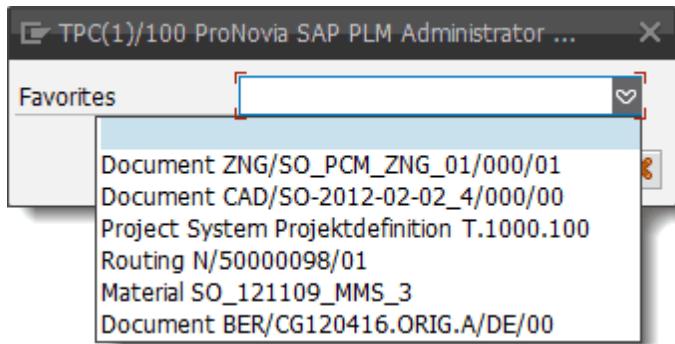
3.2.12 Load Objects from Favorites

Menu entry Edit → object for favorites

Push button 

Context menu function Object for favorites

A dialog will appear and from a drop-down list the object which shall be loaded from a favorite list can be selected.



3.2.13 Remove Objects from Favorites

Menu entry Edit → Remove object for favorites

Push button 

Context menu function Remove object from favorites

Currently displayed objects in the favorites list can be removed from the list.

3.2.14 Delete All Favorites

Menu entry Edit → Delete all favorites

Push button None

Context menu function Delete all objects from favorites

Currently displayed objects in the favorites list, can be removed from the list.

3.2.15 Previous Object

Menu entry Edit → Previous object

Push button 

Context menu function Previous object

If several objects have been displayed in the ProNovia SAP PLM Client, this function allows returning directly to the previous object. The function can be performed several times until the first object of the current session is displayed again.

3.2.16 Copy

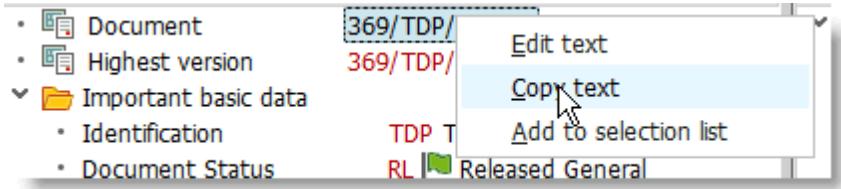
Menu entry None

Push button None

Context menu function Copy

This function is available in widgets and in the standard tree display. The currently marked text is copied into the short memory of the workstation (clipboard) and can be pasted in every application which supports this function (Copy & Paste).

In the following example the displayed and marked document key is copied into the fast memory:



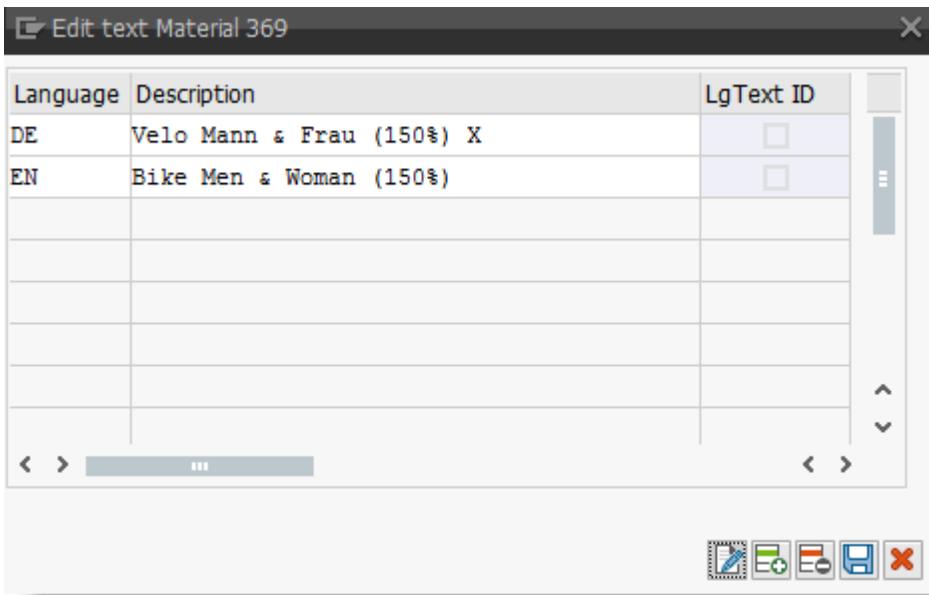
3.2.17 Text Maintenance

Menu entry None

Push button None

Context menu function Available in the data section of the object material and document. Also see the relevant paragraphs under [Object Material](#)^[40] and [Object Document](#)^[43].

The text maintenance is done in a dialog box (in case of missing authorization or if not allowed acc. to other settings, the texts are only displayed):



If supported by the relevant object, then also a long text can be displayed / maintained using Push button or by double-clicking on the tick-off field LgTextID.

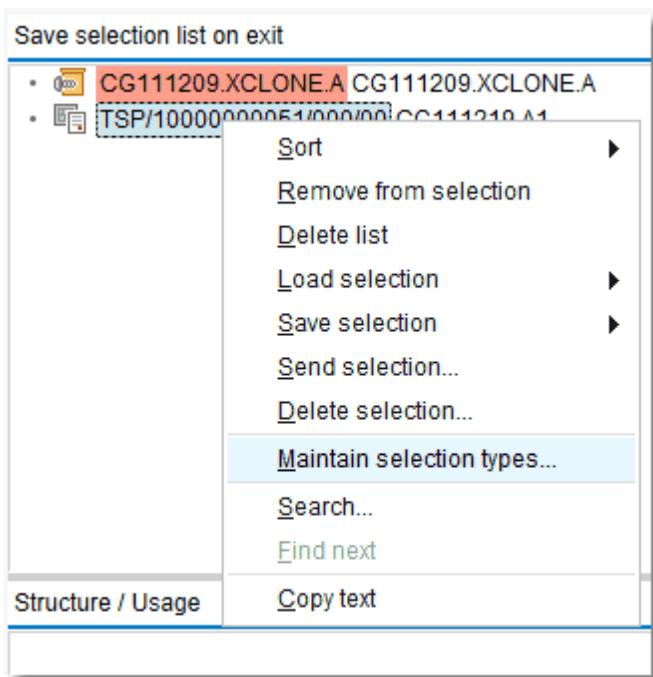
3.2.18 General Widget Functions

The general widget functions are listed below. The display of push buttons depends on the widget and its current state.

3.3 Selection List

The selection list is an arbitrary collection of objects which can be assembled by drag & drop, search operations, etc.. These Object can then be redisplayed by selecting. A selection can be saved, reloading is also possible by other users.

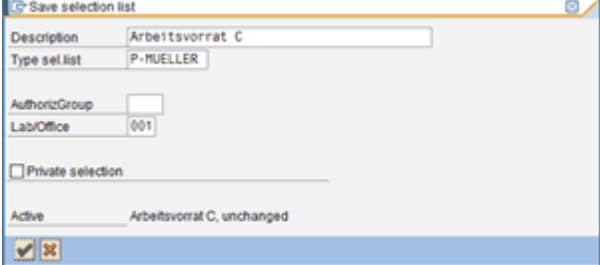
The context menu (right mouse button) on an entry in the selection list provides following functions:



3.3.1 Function of Selection List

Menu	Description
Sort	Sorts the selection list according to one of the criteria acc. to the submenu. The selection list can optionally also be sorted automatically, see Personal Setting ¹⁵ .
Remove entry	Removes the marked object from the selection list without any confirmation dialog.
Delete list	Delete all objects from the list without any confirmation dialog. The selection list is empty afterwards. Saved selection lists will not be deleted with this function.
Load selection	Depending on the last loaded selection and the changes to it, the following options are available. After appropriate selection the chosen selection is loaded. Last saved selection Last automatically saved selection will be loaded. Load selection... The selection list to load can be selected.

<i>Menu</i>	<i>Description</i>
	<p>Create selection via file...</p> <p>Allows the loading of a selection of objects whose keys are saved in a text file. In Create Selection via File^[33] the format of the file content is described.</p> <p>Import MSC material selection...</p> <p>Import and display of the material master records which are saved in a ProNovia SAP PLM Client selection.</p> <p>Import MSC document selection...</p> <p>Import and display of the document info records which are saved in a ProNovia SAP PLM Client selection.</p> <p>The MSC menu entries are only available if MSC is installed on the system.</p>
Save selection	<p>Depending on the last selection loaded and the changes to it, the following options are provided:</p> <p>Last saved selection</p> <p>Overwrites the last automatically saved selection with the current selection.</p> <p>Save selection...</p> <p>Saves current selection, name and options can be specified in a dialog.</p> <p>Save Selection as file</p> <p>Save the selection in a file format, the separators are fixed and guarantees an easy import.</p> <p>Save selection as file for ext.</p> <p>Save the selection in a file in various formats, the separators can be selected individually.</p>

Menu	Description
	<p>Remarks</p> <p>Personal or general selection lists can be saved.</p> <ul style="list-style-type: none"> • Personal selection lists can be loaded, refreshed or deleted by the creator. • General selection lists can be loaded by any user. A deletion or an overwriting is only possible by the creator (except with special authorizations). <p>A selection list is uniquely identified by its description and selection list type.</p> <p>A selection list can be assigned to a specific laboratory / office, or the usage can be restricted by assigning an authorization group. To set a specific authorization group, the corresponding authorization is checked.</p> 
Sort	Sorting of the selection list according to one of the criteria of the sub menu.
Delete selection	A selection list can be selected for deletion. The selected selection list is deleted after a request. Only personal lists can be deleted (except with special authorizations).
Send selection...	<p>Allows sending a PLC selection list to another user using SAPMail. Not the list itself is send, but the identification of the list. Only public lists can be sent.</p> <p>The list to be send must be selected in a dialog. If the currently displayed election list is valid for the operation, then this list is proposed as default.</p>  <p>After choosing the list the SAPMail sending dialog will be opened.</p> <p>By clicking on the object symbol, which is attached to the E-mail, the receiver can directly start ProNovia SAP PLM Client and the corresponding list will be opened. Authorization to a user interface definition which matches the selection list is required.</p>
Maintain selection types...	Calls the maintenance dialog for the selection list types. Requires special authorization.
Copy	Copies the selected text (key or description) into the fast memory of the workstation (clipboard). See Copy ²⁷ .

3.3.2 Language of the Description

The object description of an object in the selection list is displayed in the login language only if the description is available in this language.

3.3.3 Create Selection via File

If a selection is created via a text file, the content of this file must comply with the format described as follows.

General structure

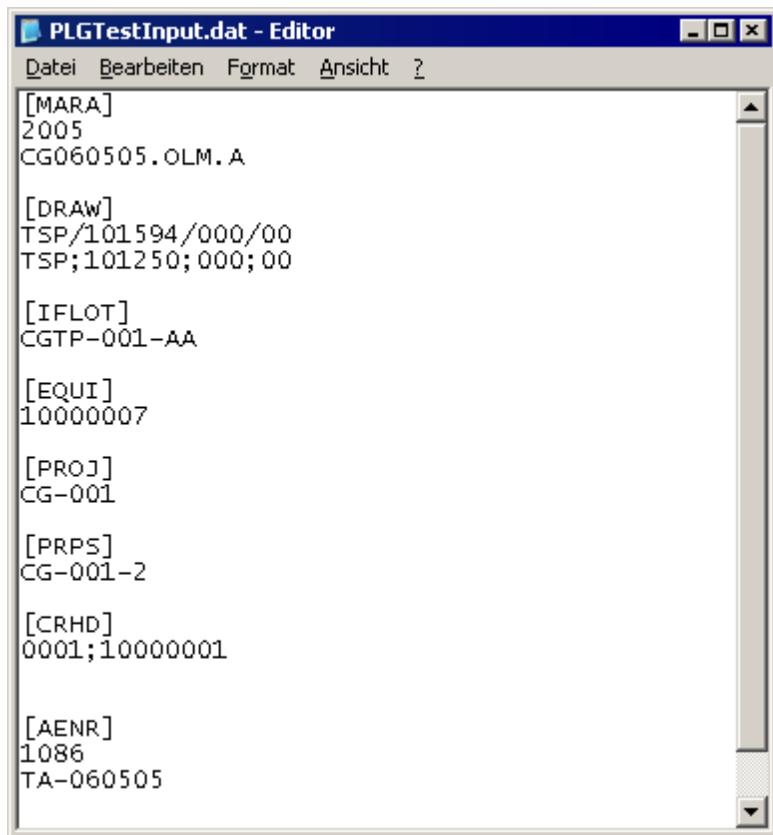
```
[<SAP Object type 1>]
<Object key 1>
<Object key 2>
...
<Object key n>
...
[<SAP Object type n>]
...
```

If no object type is indicated before the first object, it is assumed that the the objects are of same type as the currently selected object type in PLC.

Supported SAP object types are listed below. The following signs are allowed as separators(</>) for keys with several parts: ; (semicolon), / (slash) or tabulator.

Object type	Description	Key
AENR	Change master	<Change number>
CRHD	Work center	<Plant></><Work center>
DRAW	Document info record	<Type></><Number></><document part></><Version> or <Type></><Number></><document part> without <Version> the highest version is determined
EQUI	Equipment	<EquipmentNo>
IFLOT	Functional location	<Functional location>
MARA	Material master	<Material number>
PLKO	Routing	<Routing type></><Group></><group counter>
PROJ	Project definition	<Project number>
PRPS	PSP element	<PSP ElementNo>

Example of a file for creating the selection list.



```
PLGTestInput.dat - Editor
Datei  Bearbeiten  Format  Ansicht  ?
[MARA]
2005
CG060505.OLM.A

[DRAW]
TSP/101594/000/00
TSP;101250;000;00

[IFLOT]
CGTP-001-AA

[EQUI]
10000007

[PROJ]
CG-001

[PRPS]
CG-001-2

[CRHD]
0001;10000001

[AENR]
1086
TA-060505
```

3.3.4 Adding Objects

Objects can be added in a selection list in different ways

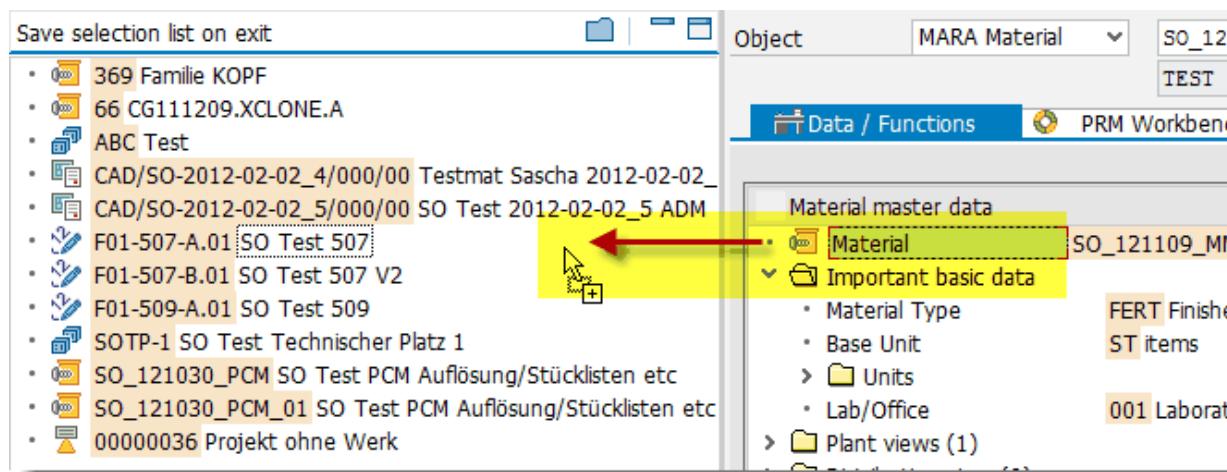
Drag & Drop



SAP Netweaver doesn't support Drag & Drop before EHP4. In case the ProNovia SAP PLM Client is used as a web based version, no Drag & Drop is possible. See [Adding Objects](#)³⁴ for an alternative option to include objects in the selection list.

All objects supported by the ProNovia SAP PLM Client can be included in the selection list by Drag & Drop. Therefore, an object must be selected with the left mouse button, the mouse button must be held, and released anywhere in the selection list.

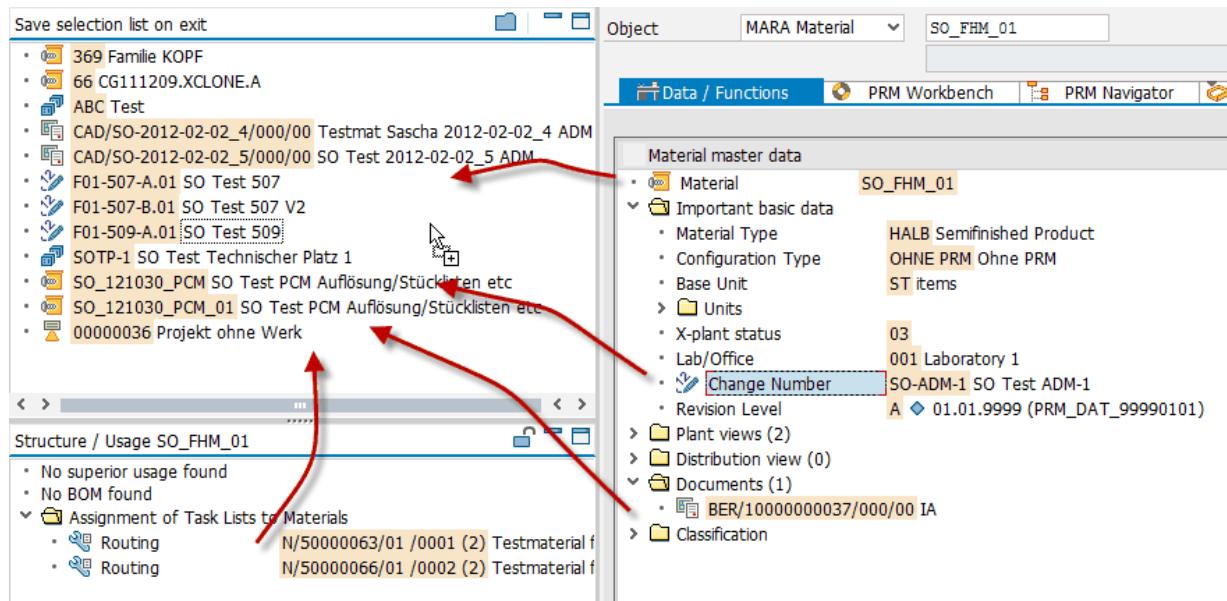
Drag & Drop is only possible if the selection list section is displayed; see [Structure On/Off](#) ²⁴.



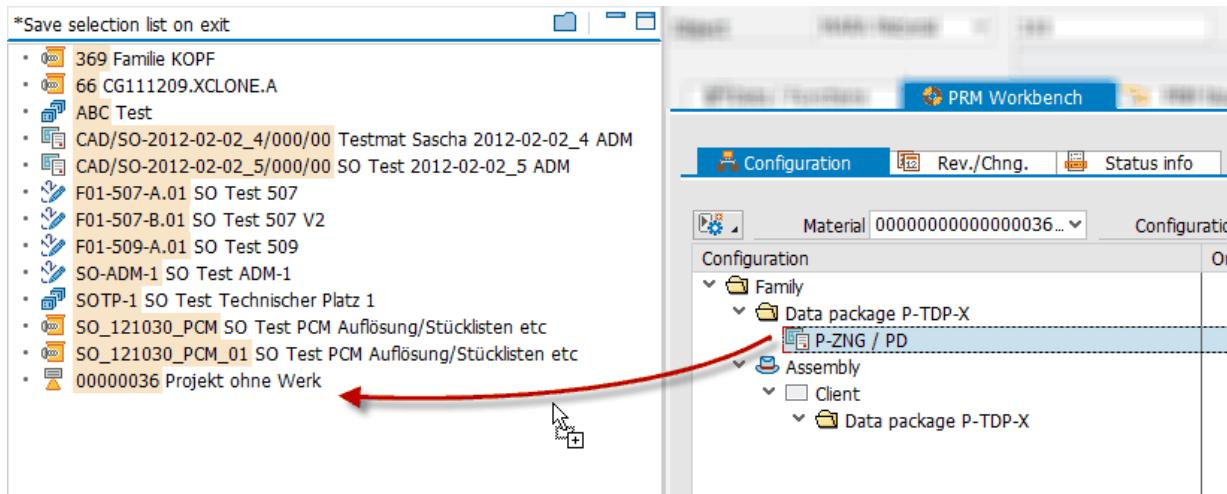
If an object cannot be included in the selection list, then the relevant application which is responsible for the data display does not support ProNovia SAP PLM Client Drag & Drop.

Objects included by Drag & Drop must be dragged into an empty area (below current object) to insert in selection list.

Examples of possible Drag & Drop actions:



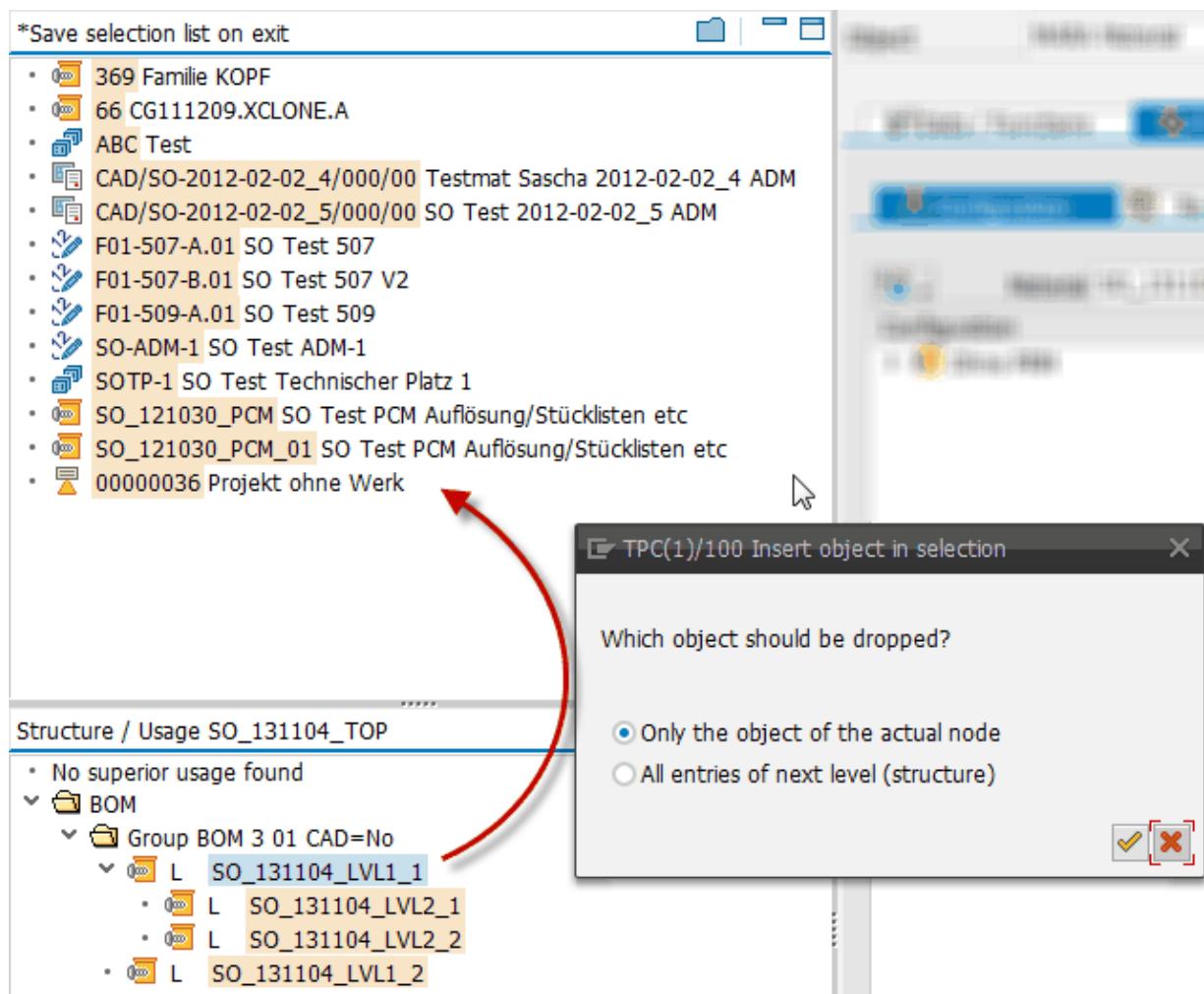
If available the Drag & Drop functionality is also supported in tabs of the product ProNovia SAP PLM Process Manager (Workbench and Navigator):



Drag-and-drop of structures

If structures are added to a selection list, always all objects in this structure will be added to the selection list. If the head of the structure (tree node) is also an object, the user must choose whether

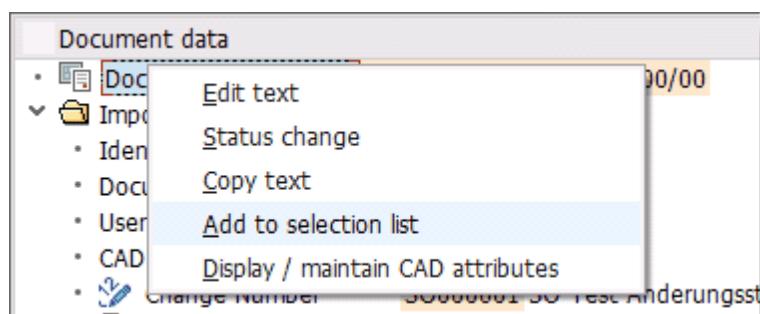
- only the object of this node or
- all sub objects shall be added, too (only objects on level below).



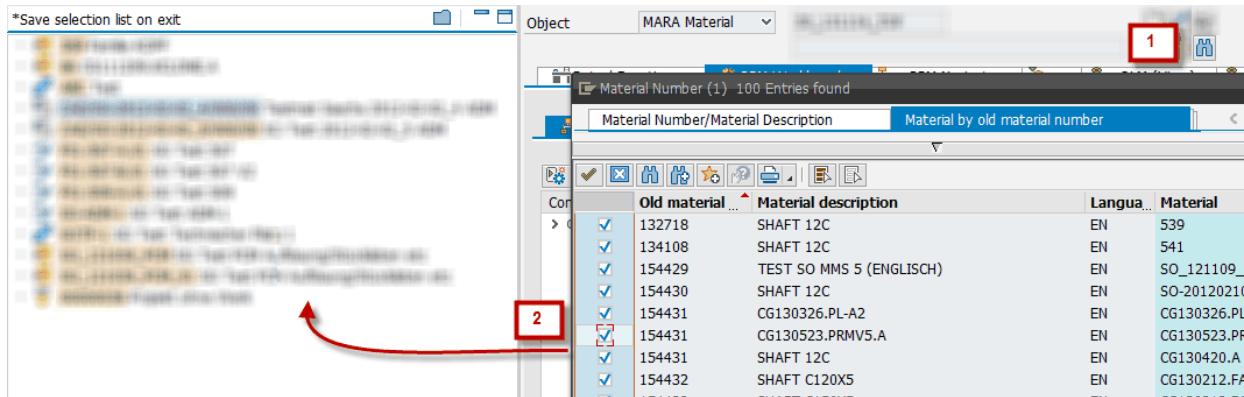
Context menu function

Instead of Drag & Drop an object can also be added to the selection list by the function "Add to selection" using the context menu.

This is also possible if the selection list is not displayed, see [Structure On/Off](#)²⁴.



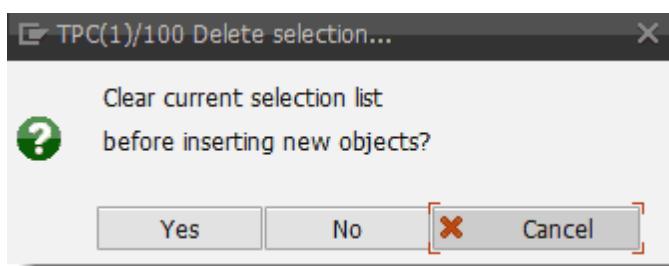
Selection of object search



Using the search function of an object (1) the so selected objects can be inserted into the selection list (2). The object search is available for the following object types:

- Material
- Document
- Change master record

If entries already exist in the selection list, the user will be asked in a dialog whether the current entries in the selection list shall be deleted or the new objects shall be added to this current list:



3.4 Structure/Usage

The screen section *structure / usage* displays structures (e.g. material BOM) and usages of the objects, if the object supports it.

Example of a display of a material master record:

Structure / Usage 370

- Usage in structures / BOM
- BOM
 - Group BOM 2 01 CAD=No
 - 0005 1/ST 372 (26.05.2009-31.12.9999) "Tire"
 - 0008 1/ST 373 (26.05.2009-31.12.9999) "Tube"
 - 0010 1/ST 375 (26.05.2009-31.12.9999) "Freewheel"
 - 0056 1/ST 381 (26.05.2009-31.12.9999) "Freewheel (motor)"
 - 0060 1/ST 390 (26.05.2009-31.12.9999) "Rim Strip"
 - 0062 1/ST 391 (26.05.2009-31.12.9999) "Reflector - Wheel"
 - 0100 1/ST 394 (26.05.2009-31.12.9999) "Spoke Wheel"
 - 2000 1 01 CAD=No
- Assignment of Task Lists to Materials
 - Routing N/50000008/01 /2000 (4) Baugruppe Hinterrad
 - Routing N/50000031/01 /2000 ((4))

If an object is selected from this list, then it will be displayed. Thus, the display structure / usage also changes and the objects of the newly selected object are displayed.

Exception:

This widgets can be “frozen”. Frozen widgets won’t refresh their data. Neither when using function “refresh data”, nor when loading a new object. See also [General Widget Functions](#) [28].

For BOM's functions to display and edit the objects are provided:

Structure / Usage CGTP

No usage found

- Func.Location Structure
- Func.Location BOM
 - 0001 4:01, 09.0
 - 0010 P-BGR-
 - 0020 FR T:
- Equipments
 - 1 10000001

Compress part tree

Structure show

Structure edit

Copy

Add to selection list

4 Objects

ProNovia SAP PLM Client is based on the user interface of the ProNovia SAP ClientFramework (PCF). PCF allows the integration of various objects. For each object, data can be displayed or changed, and different functions can be provided.

With settings and extensions it is possible to configure the provided objects, tabs and functions.

In this chapter the SAP PLM objects supported by ProNovia SAP PLM Client are briefly explained. For details on the implemented objects, tabs and functions, please see also the relevant documentation in your enterprise.

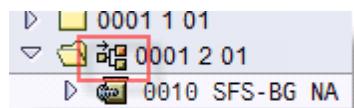
Please also note the hints in [Abbreviations](#) ⁵.

4.1 Object "Material"

Structures/Usages

Screen section „Structures/Usages“ displays usages in material -, functional location -, and equipment BOM, as well as material BOMs of the selected material. The material BOM of the material can be multi-level exploded / displayed. Furthermore, routings assigned to the material master are displayed.

If a bill of material is assigned to multiple plants and / or clients, then this will be indicated with a special icon and in the context menu the function “Display Allocations to Plant” will be available.



Tabs for Object "Material"

Tab „**Data / Functions**“ provides the main material data and basic SAP functions of the selected material master are displayed.

In the tab „**PRM Workbench**“ the ProNovia SAP PLM ProcessManager Workbench displays the selected material (if installed).

Tab „**PRM Navigator**“ displays the ProNovia SAP PLM ProcessManager Navigator for the selected material (if installed).

Tab „**OLM**“ displays ProNovia SAP PLM Object Lifecycle Manager processes for the selected material which can be edited if required (if installed).

The screenshot shows the PRM Workbench interface. The top navigation bar includes tabs for Data / Functions, PRM Workbench, PRM Navigator, OLM (View), OLM Client (Change), and Help. The main area is divided into two panes: 'Material master data' on the left and 'Functions' on the right.

Material master data pane:

- Material:** SO-2012-02-02_5
- Important basic data:**
 - Material Type: HALB Semifinished Product
 - Configuration Type: U-BGS-O
 - Base Unit: ST items
 - Units:**
 - 1 items <=> 1 items
 - X-plant status: 03
 - X-DChain status: NA
 - Lab/Office: 001 Laboratory 1
 - Material Group: 01 Material group 1
 - Division: 01 Product Division 01
 - Prod.hierarchy: 00001 Tools
 - Change Number: SO000001 SO Test Änderungsstamm ADM
 - Revision Level: A 15.12.2019 (PRM_DAT_20191215)
- Plant views (1):**
 - 0001 Werk 0001 01 Blocked for procment/whse
- Distribution view (1):**
 - 0001/01 Sales Org. 001/Distribtn Channel 01 04 Test Part
- Documents (4):**
 - BER/1000000037/000/00 IA
 - CAD/SO-2012-02-02_5/000/00 AA
 - SKM/SO-2012-02-02_5/000/00 AA
 - TDP/10000000182/000/01 AA
- Classification:**
 - 001 PDM_MM_STANDARD
 - Configuration Type: U-BGS-O

Functions pane:

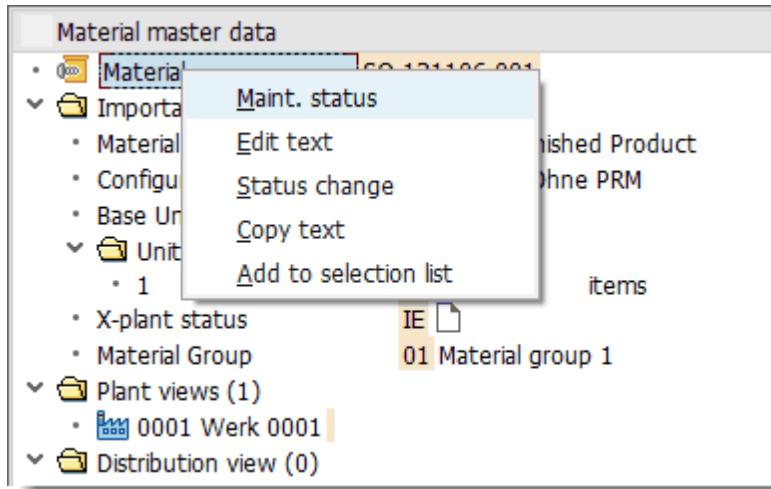
- Single operations:**
 - Set status
 - Characteristic value set/change/delete
 - Change revision level material master (client)
 - Change revision level material master (plant)
 - Delete material master revision (client)
 - Delete material master revision (plant)
 - Clean up "dead" usage in structures
- Mass operations:**
 - Classification / feature values
 - Set status
- Other functions:**
 - Material master:**
 - Create material master
 - Change material master
 - Display material master
 - Display material changes
 - BOM / Structures / Usage:**
 - Create BOM
 - Change BOM
 - Show BOM
 - BOM browser
 - BOM explosion multi level
 - BOM explosion structure (multi level)
 - Summarized BOM
 - Where-used list
 - Structure browser
 - ProNoria Products:**
 - ProcessManager
 - MaterialMasterSupport
 - Object Lifecycle Manager

Remarks:

- If the object is currently locked, then this will be displayed, example:
Object is locked by user SO
- The description of the object management record (text / long text) on the line "OM rec. descr." can be created, changed or displayed using the corresponding icon.
- In the "Revision level / changes" section, either the object management record description (with an icon to display the full text) or the description of the change master (without icon) is displayed.

Context Menu Function for Data

On the nodes of the displayed data additional functions may be available:



Function	Valid on node	Description																																																
Maintenance status	Material Plant entries	<p>Shows the maintenance status of the material master record (overall) or the specific plant:</p> <table border="1"> <thead> <tr> <th>Plnt</th> <th>SLoc</th> <th>S</th> <th>Status description</th> </tr> </thead> <tbody> <tr> <td>*</td> <td></td> <td>A</td> <td>Work scheduling</td> </tr> <tr> <td></td> <td></td> <td>B</td> <td>Accounting</td> </tr> <tr> <td></td> <td></td> <td>C</td> <td>Classification</td> </tr> <tr> <td></td> <td></td> <td>D</td> <td>MRP</td> </tr> <tr> <td></td> <td></td> <td>E</td> <td>Purchasing</td> </tr> <tr> <td></td> <td></td> <td>G</td> <td>Costing</td> </tr> <tr> <td></td> <td></td> <td>K</td> <td>Basic data</td> </tr> <tr> <td></td> <td></td> <td>L</td> <td>Storage</td> </tr> <tr> <td></td> <td></td> <td>Q</td> <td>Quality management</td> </tr> <tr> <td></td> <td></td> <td>S</td> <td>Warehouse management</td> </tr> <tr> <td></td> <td></td> <td>V</td> <td>Sales</td> </tr> </tbody> </table> <p>If any storage views for a plant are maintained, this is also shown for the plant record.</p>	Plnt	SLoc	S	Status description	*		A	Work scheduling			B	Accounting			C	Classification			D	MRP			E	Purchasing			G	Costing			K	Basic data			L	Storage			Q	Quality management			S	Warehouse management			V	Sales
Plnt	SLoc	S	Status description																																															
*		A	Work scheduling																																															
		B	Accounting																																															
		C	Classification																																															
		D	MRP																																															
		E	Purchasing																																															
		G	Costing																																															
		K	Basic data																																															
		L	Storage																																															
		Q	Quality management																																															
		S	Warehouse management																																															
		V	Sales																																															
Edit text	Material	If allowed by settings and authorities, this function calls a text maintenance dialog, see Text Maintenance [28].																																																

Function	Valid on node	Description
Status change	Material	Allows to set a new material status by selecting the new status from a selection dialog. If installed, status selection is made (and restricted) by ProNovia SAP PLM ProcessManager.
	Cross plant status	
	Plant	
Assign classes / charact. valuation	Classification nodes	If allowed by authorizations, the maintenance of class assignments and valuation is called. The default transaction CL20N for class maintenance is called.
Others		See Object Independent Functions ^[13] .

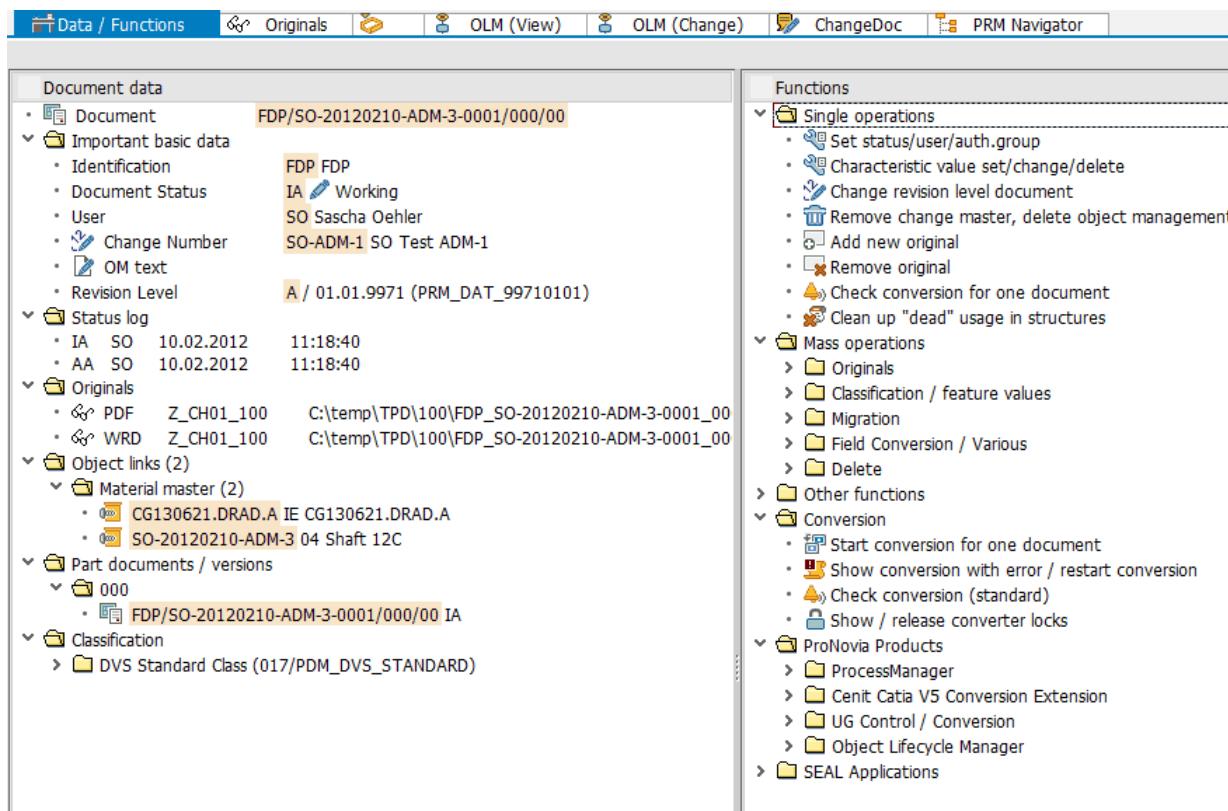
4.2 Object "Document"

■ Structures/Usages

The screen section „Structures/Usages“ displays the usages in document -, material -, functional location -, and equipment BOM, as well as any document structure of the selected document. The document structure of the document can be multi-level exploded / displayed.

■ Tabs for Object "Document"

- Tab „**Data / Functions**“ displays the main document data and basic SAP functions of the selected document.
- Tab „**Originals**“ directly displays the originals in the ProNovia SAP PLM Client for the selected document. The original to be displayed must be selected over the selection list. The system can also be configured so certain originals are loaded automatically. Which application types are possible, resp. are allowed is defined with the settings.
- Tab „**OLM**“ displays the ProNovia SAP PLM Object Lifecycle Manager for the selected document and allows editing (if installed).
- Tab „**ChangeDoc**“ displays the selected document of the ProNovia SAP PLM Change Doc (if installed).
- Tab „**PRM Navigator**“ displays the ProNovia SAP PLM ProcessManager Navigator for the selected document (if installed).

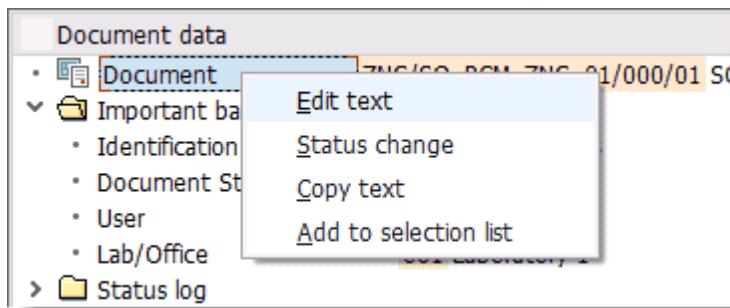


Remarks:

- If another version than the current version is displayed, it will be indicated:
 - Document: ZNG/SO_PCM_ZNG_01/000/00 SO Drawing PCM 01
 - Highest version: ZNG/SO_PCM_ZNG_01/000/01 SO Drawing PCM 01 2
- If the object is currently locked, then it will be indicated:
 - Object is locked by user SO
- Release states are marked in the line document status and in the status protocol with the icon .
- If a digital signature has been given for a release status, then this is marked in the status protocol with icon .
- The description of the object management record (text / long text) on the line "OM rec. descr." can be created, changed or displayed using the corresponding icon.
- All object types which are linked are displayed, even if this link meanwhile is not available anymore pursuant to SAP-DVS customizing.

Context Menu for Data

On the nodes of the displayed data additional functions may be available:



Function	Possible on node	Description
Text maintenance	Document	If the settings and authorizations allow it, then the document short text, and the long text can directly be maintained over this function, see Text Maintenance ²⁸ .
Status change	Document Document status	Allows to set the document status using a selection dialog. If installed, status selection is made (and restricted) by ProNovia SAP PLM ProcessManager. In case a digital signature is required for the status, the status change is processed with standard transaction CV02N, and after the entering of the digital signature, the document must be saved manually.
Digital signatures	Line from the status log	If a digital signature has been made for one of the recorded status changes, then this signatures can be displayed over this function.
Assign classes / character valuation	Classification nodes	If allowed by authorizations, the maintenance of class assignments and valuation is called. The default transaction CL20N for class maintenance is called.

4.3 Object "Functional Location"

Structures/Usages

The screen section „Structures/Usages“ displays the usages in functional locations, subordinate functional locations, BOM for functional locations, as well as integrated equipment. The structures can be multi-level exploded / displayed.

Tabs for "Functional Location"

Tab „Data / Functions“ displays the main data and basic SAP functions for the selected functional location.

The screenshot shows the SAP Data / Functions tab for an equipment object. The left pane displays the functional location and general data of the equipment. The right pane lists various SAP functions related to equipment management.

Functional location

- Functional loc. SOTP-1 SO Test Technischer Platz 1
- General data
 - Status CRTE
 - FunctLocCat. M Technical system - standard
 - Object type 1000 EquipType 1000
 - AuthorizGroup 0001 Group 0001
 - Weight 150 KG
 - Size/dimens. 100X80X60
 - Inventory no. D-32150.02
 - Start-up date 01.01.2010
- Reference data
 - AcquistnValue 12,500.00 CHF
 - Acquisition date 01.11.2009
- Manufacturer's data
 - Manufacturer Maschinen AG
 - ManufCountry CH
 - Model number TTP 01

Functions

- Functional Location
 - Create
 - Change
 - Display
- Structures
 - Functional Location Structure
 - Structure Browser
- Functional Location BOM
 - Create
 - Change
 - Display
- Notification
 - Malfunction Report
 - Activity Report
 - Maintenance Request
 - General Notification
 - Change PM Notification
 - Display PM Notification
- Object Lifecycle Manager
- SEAL Applications

Remarks:

If the object is currently locked, the following message will be shown: Object is locked by user SO

4.4 Object "Equipment"

Structures/Usages

The screen section „Structures/Usages“ displays the usages in functional locations and equipment, subordinate equipment and BOM for the equipment are displayed. The structures can be multi-level exploded / displayed.

Tabs for Object "Equipment"

Tab „Data / Functions“ displays the main data and basic SAP functions for the selected equipment:

The screenshot shows the SAP Data / Functions interface. On the left, the 'Equipment' module is displayed with a tree view of data categories and their values. On the right, the 'Functions' module is shown with a tree view of functional categories and their sub-options.

Equipment Data:

- Equipment: 100000001 SO Test Equipment
- General data:
 - Status: AVLB
 - EquipCategory: M Machines
 - Object type: 1000 EquipType 1000
 - AuthorizGroup: 0001 Group 0001
 - Weight: 150 KG
 - Size/dimens.: 70X70X200
 - Inventory no.: EQ-12501.01
 - Start-up date: 05.11.2013
- Reference data:
 - AcqisnValue: 25,000.00 CHF
 - Acquisition date: 01.01.2013
- Manufacturer's data:
 - Manufacturer: Euqip-Specialist
 - ManufCountry: CH
 - Model number: XY-112
 - ConstructYear: 2009 01
 - ManufPartNo: XY-112-750
 - ManufSerialNo: XY-112-750-C
- Location data
- Classification

Functions:

- Equipment:
 - Create
 - Change
 - Display
- Structures:
 - Structure display
 - Structure Browser
- Equipment BOM:
 - Create
 - Change
 - Display
- Notification:
 - Malfunction Report
 - Activity Report
 - Maintenance Request
 - General Notification
 - Change PM Notification
 - Display PM Notification
- Object Lifecycle Manager
- SEAL Applications

Remarks:

If the object is currently locked, the following message will be shown: Object is locked by user SO

4.5 Objects "Project System"

Structures/Usages

In the object selection the project system supports the following objects of the SAP project:

- Project definition
- WBS element
- Standard project template
- Standard WBS element

The requested object must be selected accordingly:

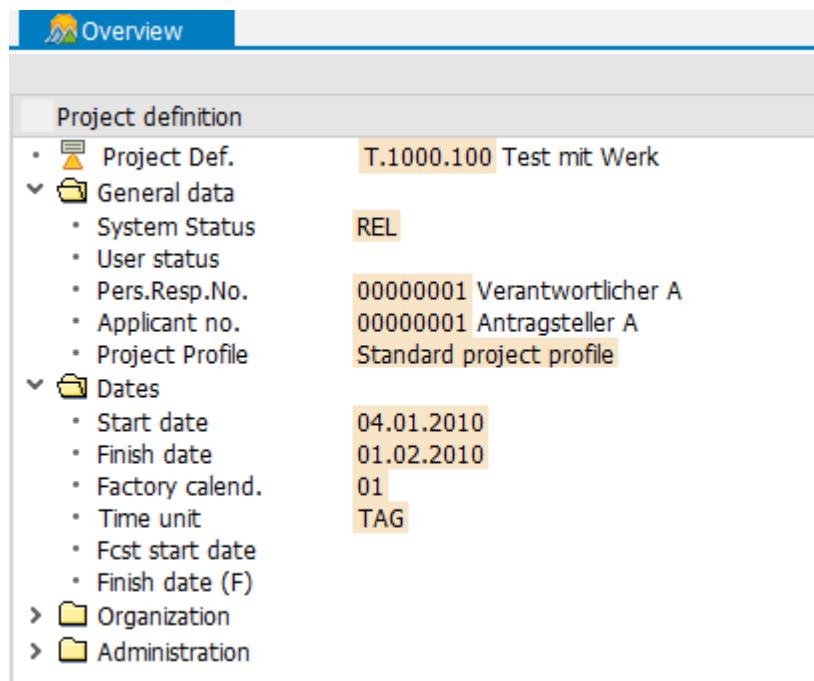
The screenshot shows a dropdown menu for selecting an object type. The 'Project definition' option is highlighted with a red border.

Object Selection:

- Object: Project System
- Project definition (highlighted)
- Project definition
- WBS element
- Standard Project template
- Standard WBS element

■ Tabs for object "Project System"

Tab „Overview“ displays the main data for the selected object:

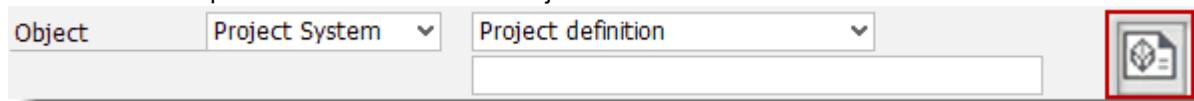


The screenshot shows the SAP Project System interface with the 'Overview' tab selected. The main content area is titled 'Project definition' and contains the following data:

Category	Value
Project Def.	T.1000.100 Test mit Werk
General data	REL
System Status	00000001 Verantwortlicher A
User status	00000001 Antragsteller A
Pers.Resp.No.	Standard project profile
Applicant no.	
Project Profile	
Dates	
Start date	04.01.2010
Finish date	01.02.2010
Factory calend.	01
Time unit	TAG
Fcst start date	
Finish date (F)	
Organization	
Administration	

Remarks:

- If the object is currently locked, the following message will be shown:  Object is locked by user SO
- In the standard scope of supply no functions are provided. Use the Project Builder which directly can be selected over the push-button in the section object.



4.6 Object "Change Master"

■ Structures/Usages

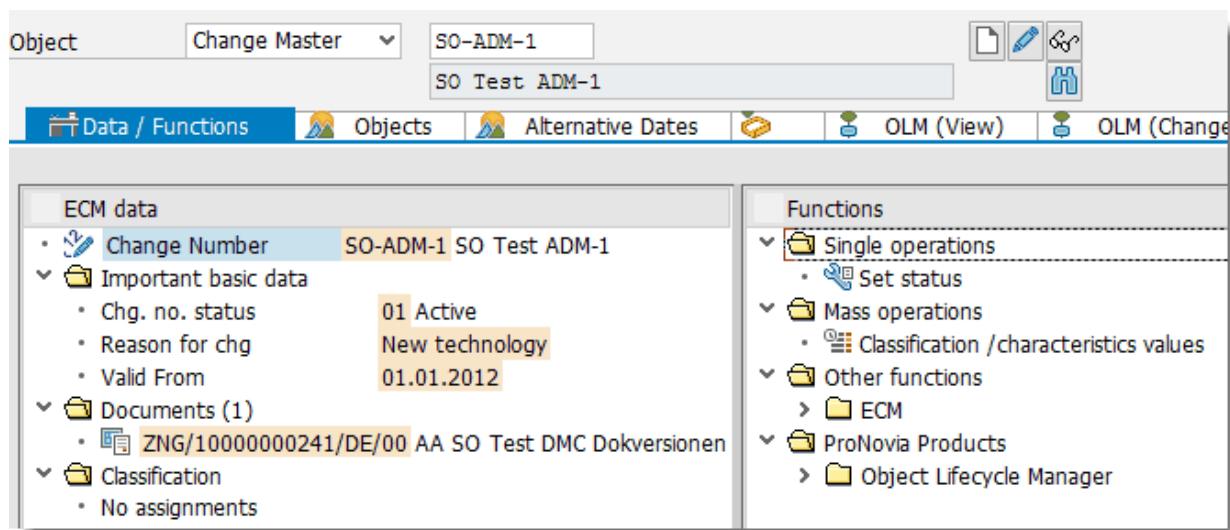
This object shows no structures or usages.

■ Tabs for Object "Change Master"

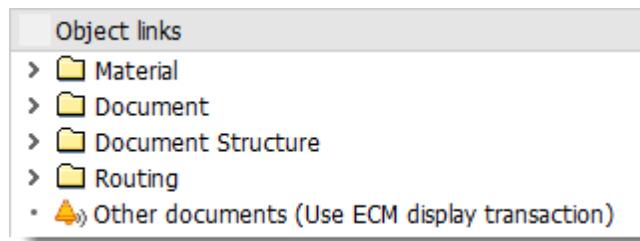
Tab „Data / Functions“ displays the main change master data and basic SAP functions for the selected change master.

Remarks:

If the object is currently locked, then this will be displayed:  Object is locked by user SO

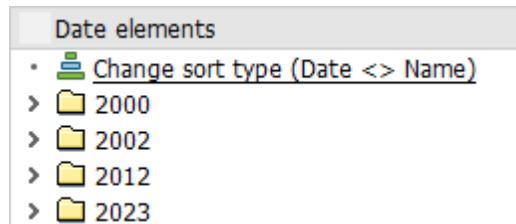


Tab „Objects“ displays objects assigned to the change master resp. changed with the change number. The objects listed are sorted by object types. The description of the object management record (text / long text) can be created, changed or displayed using the corresponding icon. If objects which are not supported by the ProNovia SAP PLM Client are assigned to the change master, then this is indicated.



Further / not supported object types must be displayed using over the change master record (display change master record -> objects).

Tab „Alternative Dates“ displays the alternative dates and the objects assigned. The display depends on the sorting mode, either sorted after date (year) or sorted after name of the alternative dates.

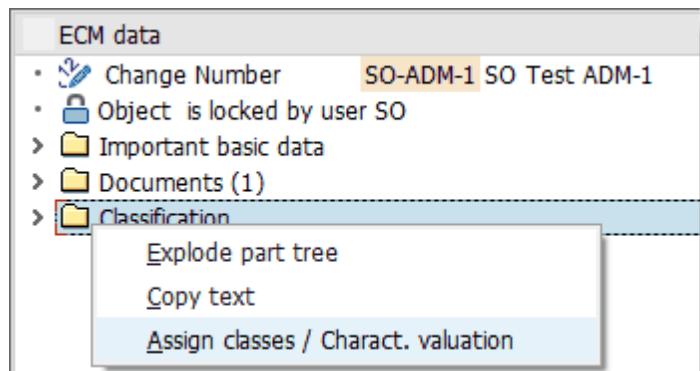


Tab "OLM" displays the ProNovia SAP PLM Object Lifecycle Manager for the selected change master record.

Tab "PCM" displays the ProNovia SAP PLM ChangeMaster for the selected change master record.

□ Context Menu Functions for Data

On the nodes of the displayed data additional functions may be available:



Function	Possible on nodes	Description
Change status	Change Number Status ChngNr	Allows setting the status of the change master directly. All status defined in customizing will be displayed for selection. This list can be reduced by customer specific extensions.
Assign classes / characteristic valuation	Nodes of the classification	If allowed by authorizations, the maintenance of class assignments and valuation is called. The default transaction CL20N for class maintenance is called.

4.7 Object "Routing"

□ Structures/Usages

The screen section „Structures/Usages“ displays the material assignments for the current routing.

■ Tabs for Object "Routing"

Tab „Data / Functions“ displays the main data and basic SAP functions for the selected routing:

Routing data

- Routing N/50000017/01 SO Test AP 2012-02-02_5
- Plant 0001
- All data displayed for 01.01.2015
- General and administrative data
 - Usage 2 Engineering/design
 - Status 2 Released for order
 - Planner group
 - Lot size 10 - 99,999,999 ST
 - Valid From 01.03.2012
 - Created on 01.03.2012 / SO
 - Changed on 01.03.2012 / SO
- Standard sequence
 - Valid From 01.03.2012
 - Oper./Act. 0010 0001 Rüsten
 - Oper./Act.
 - Valid From 01.03.2012
 - Work center 0001/SO-FHM-2
 - PRT
 - ZNG/SO_TEST_FHM/000/00
 - ZNG/SO_TEST_FHM_2/000/00
 - ZNG/SO_TEST_FHM_2/000/01
 - AMO/4711/EN/00
 - ZNG/SO_TEST_FHM/000/00
 - Components
 - SO-20120301-K01
 - SO-20120301-K02
 - Classification
 - Oper./Act. 0030 0001 Lackieren
- Sequence 000001 Alternative Folge 1
- Classification

Functions

- Routing
 - Standard Routings
 - Create
 - Change
 - Display
 - Reference Operation Sets
- Extras
 - Mass Changes
 - Material Master
 - Standard Text
 - Delete Task Lists
- Reporting
 - Where-Used List
 - Print Rtg/Ref.Op.Set, Fields Fixed
 - Changes in Routings/Ref. Op. Sets
 - Change Documents
- Production Resources and Tools (PRT)
 - Create Production Resource/Tool
 - Change Production Resource/Tool
 - Display Production Resources/Tools
 - Create Document
 - Change Document
 - Display document
 - Find Document
 - Mass Replace PRT
 - PRT Where-Used Lists
- Object Lifecycle Manager
- SEAL Application

Remark:

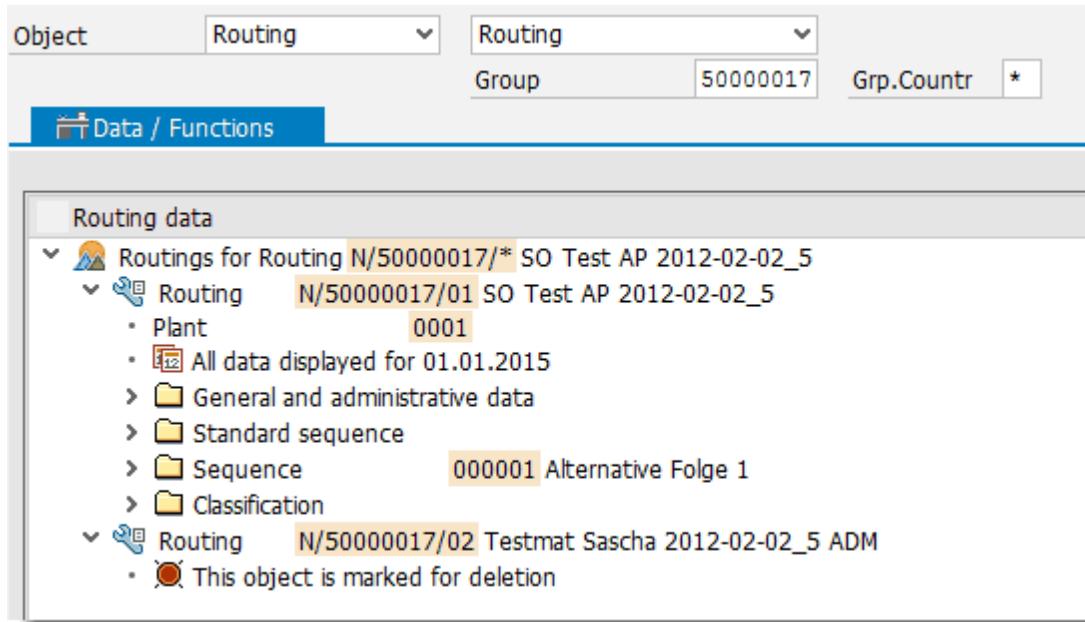
- If the object is currently locked, the following message will be shown: Object is locked by user SO
- If for a group more than one group counter exists, then beside the field "Grp.Countr" a push-button will be displayed:

Object: Routing

Group: 50000017

Grp.Countr: 1

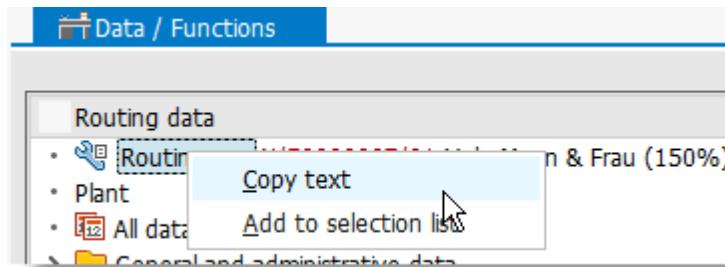
- Clicking this button all available groups are displayed:



If for a group counter of a group several variants are valid (acc. to „valid from“ date / change number), then all validities are displayed. If several routings are displayed (all group counters and / or several validities) and the functions „Change“ or „Display“ activated, then the routing to be displayed or changed must be selected.

□ Context Menu Functions for Data

On the nodes of the displayed data additional functions may be available:



Unlike other objects, object routing does not allow maintenance of the classification, this is only allowed via the object maintenance (restriction through SAP standard in the object routing).

4.8 Object "Work Center"

□ Structures/Usages

The screen section „Structures/Usages“ displays the following data:

- Hierarchies of work centers. Thereby, a node „Superior“ as well as a node „Hierarchy“ is displayed. The structure of the hierarchy can be multi-level exploded / displayed.
- If available, usages of the work center in routings are displayed. In case a work center is used in more than five hundred routings, then the reading is cancelled, and as a last entry of this list an appropriate hint is output. In this case the complete list, if necessary with further restrictions, can be displayed over the function „Usage work center in routings“ (functions → reports).

■ Tabs for Object "Work Center"

Tab „Data / Functions“ displays the main data and basic SAP functions of the selected work center.

Work Center Data

- Work center 0001/SO000001 SO Test Cleaning
- Basic data
 - Work center cat 0001 Machine
 - Pers. respons. A Arbeitsplaner A
 - Usage 009 All task list types
 - Std val. key SAP0 No standard values
- Default values
 - Control key PP01
 - Suitability 10
 - No. Time Tickets 1
 - No.conf. slips 012
- Capacities
- Scheduling
- Costing
- Technology
- Classification

Functions

- Work center
 - Create
 - Change
 - Display
 - Replace
- Capacity Planning
 - Reporting
 - Leveling
 - Available Capacity
- Hierarchy
 - Create Hierarchy
 - Change Hierarchy
 - Display Hierarchy
- Line Hierarchy
- Object Lifecycle Manager
- SEAL Applications

Remarks:

If the object is currently locked, the following message will be shown: Object is locked by user SO

■ Context Menu Functions for Data

On the nodes of the displayed data, additional functions may be available:

Work Center Data

- Work center 0001/SO000001 SO Test Cleaning
- Basic data
- Default values
- Capacities
- Scheduling
- Costing
- Technology
- Classification

Explode part tree

Copy text

Assign classes / Charact. valuation

<i>Function</i>	<i>Possible on nodes</i>	<i>Description</i>
Assign classes / characteristic valuation	Nodes of the classification	If allowed by authorizations, the maintenance of class assignments and valuation is called. The default transaction CL20N for class maintenance is called.

4.9 Object "System"

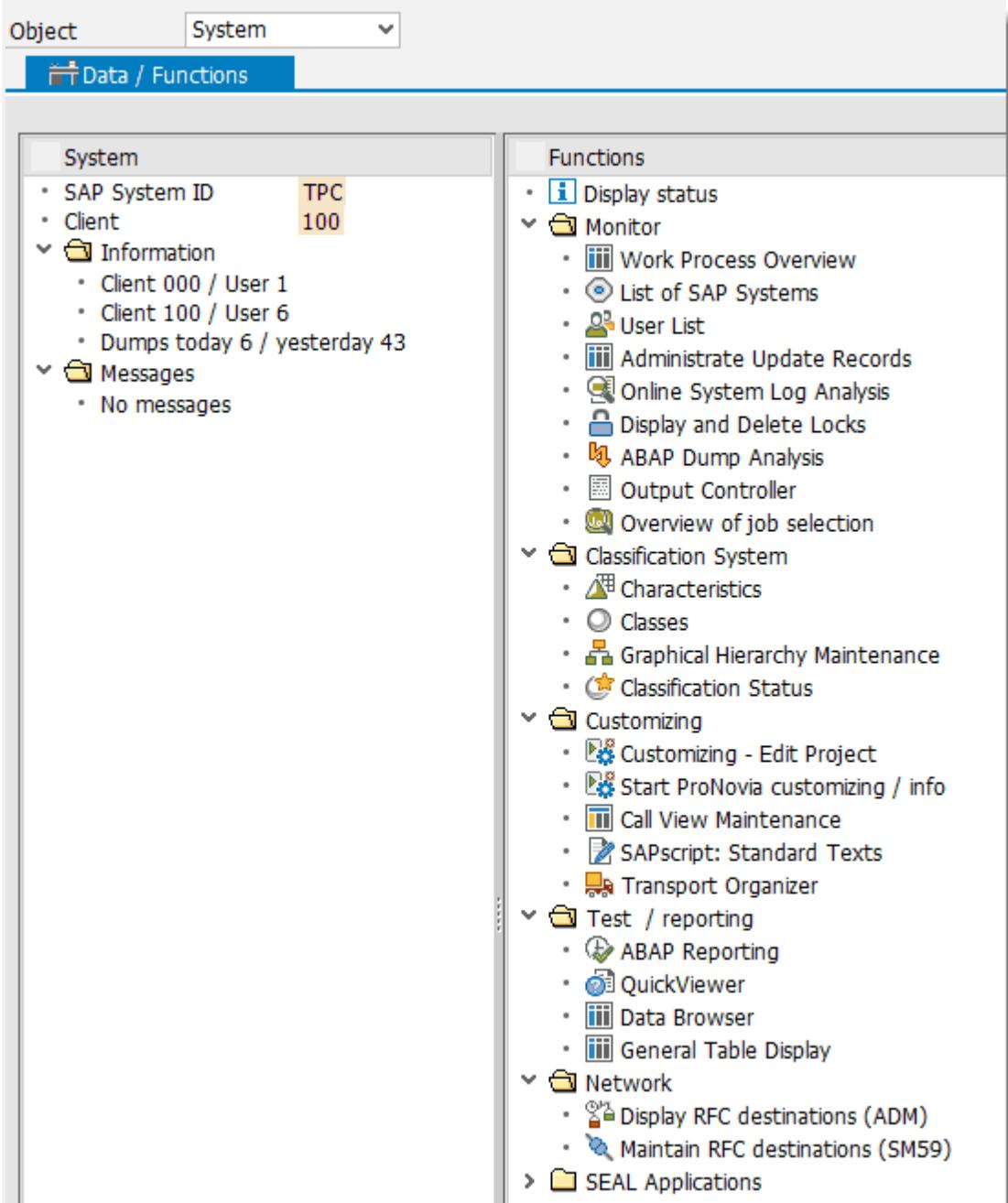
In the standard definition, only available in the definition ProNovia SAP PLM Administrator. This object has no object key.

Structures/Usages

This object displays no structures or usages.

■ Tabs for Object "System"

Tab „Data / Functions“ displays system data and basic SAP functions.



The screenshot shows the SAP System interface with the 'Data / Functions' tab selected. The left pane displays system data, and the right pane lists various SAP functions.

System Data (Left):

- SAP System ID: TPC
- Client: 100
- Information:**
 - Client 000 / User 1
 - Client 100 / User 6
 - Dumps today 6 / yesterday 43
- Messages:**
 - No messages

Functions (Right):

- Display status
- Monitor:**
 - Work Process Overview
 - List of SAP Systems
 - User List
 - Administrative Update Records
 - Online System Log Analysis
 - Display and Delete Locks
 - ABAP Dump Analysis
 - Output Controller
 - Overview of job selection
- Classification System:**
 - Characteristics
 - Classes
 - Graphical Hierarchy Maintenance
 - Classification Status
- Customizing:**
 - Customizing - Edit Project
 - Start ProNoria customizing / info
 - Call View Maintenance
 - SAPscript: Standard Texts
 - Transport Organizer
- Test / reporting:**
 - ABAP Reporting
 - QuickViewer
 - Data Browser
 - General Table Display
- Network:**
 - Display RFC destinations (ADM)
 - Maintain RFC destinations (SM59)
- SEAL Applications